GLOBAL TUBERCULOSIS CONTROL

WHO REPORT 2000



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List of abbreviations

AFR African Region AMR American Region

CDR Case detection rate (i.e. smear-positive case detection rate, whole country) DDR DOTS detection rate (i.e. smear-positive case detection rate under DOTS) WHO TB control strategy (Directly Observed Treatment, Short-Course) **DOTS**

EMR Eastern Mediterranean Region

EUR **European Region**

International Union Against Tuberculosis and Lung Disease **IUATLD**

NGO Non-government organization

NTP National Tuberculosis Control Programme SCC Standardized short-course chemotherapy

SEAR South-East Asia Region

TB Tuberculosis

WPR Western Pacific Region

Key findings of this report

- ➤ Data from 189 countries show that progress in global tuberculosis control accelerated somewhat between 1997 and 1998: DOTS programmes reported the biggest annual increment in case finding so far, whilst maintaining high average treatment success rates.
- ➤ Forty-five percent of all estimated tuberculosis cases (3.62m/8.08m), and 40% of all smear-positive cases (1.43m/3.57m), were notified to WHO for 1998.
- ➤ By the end of 1998, 119 countries had adopted, and reported on, the WHO DOTS strategy for TB control; they include all 22 high-burden countries (which bear 80% of estimated incident cases).
- ➤ Forty-three percent of the global population had access to DOTS, double the fraction reported in 1995.
- ➤ Twenty-one percent of estimated smear-positive cases were reported under DOTS in 1998, also double the fraction reported in 1995.
- ➤ Compared with 1997, an extra 220 000 smear-positive cases were reported by DOTS programmes in 1998, which is faster than the average annual increase since 1994; if programmes could add 250 000 new cases each year, 70% of all (estimated) smear-positive cases would be treated under DOTS by 2005.
- ➤ The average treatment success rate was 78% in all DOTS programmes in 1997 (but only 62% in the African Region); it was 82% in the 22 high-burden countries which, collectively, are close to meeting the WHO target of 85%.
- ➤ The countries which achieved the biggest improvements in case detection under DOTS whilst maintaining high cure rates were China (83 000 additional smear-positives), South Africa (16 000), India (12 000), Bangladesh (12 000) and the Philippines (11 000).
- ➤ Although these five high-burden countries made significant progress in 1997/8, others failed to do so: Indonesia, Pakistan, the Russian Federation and Uganda (among others) all reported low treatment success and/or case detection rates.
- ➤ Peru and Viet Nam are still the only two high-burden countries to have met the WHO targets for case detection and treatment success; they can now diversify their TB control programmes by adopting a wider range of impact indicators to quantify, e.g. the decline in incidence, and by addressing special problems in TB control, such as the treatment of multi-drug resistant disease.

Technical Summary

Background and aims

This is the fourth global report on TB control, based on case notifications and treatment outcome data supplied by national control programmes to WHO. It makes use of five consecutive years of data to assess worldwide progress in TB control, focusing on 22 countries that account for 80% of all new cases. The main aim is to assess progress towards meeting WHO targets for case detection (70%) and treatment success (85%).

Methods

A standard data collection form was sent to 211 countries via WHO Regional Offices. Part A of the form requested, from DOTS areas, the number and types of TB cases notified in 1998, plus treatment and retreatment results for smear-positive or culture-positive (mainly Europe) cases registered in 1997. Part B is for areas that have not implemented DOTS; it asks for the same information about notifications and treatment outcomes, but is less demanding of data (e.g. excluding information about cases undergoing retreatment).

Results

189 countries reported to WHO; 119 of these satisfied the technical criteria for DOTS implementation at the end of 1998, including all 22 of the highest-burden countries. 43% of the global population had access to DOTS, double the rate in 1995. The total number of cases notified to WHO for 1998 was 3 617 045, 45% of the estimated global total. The total number of smear-positive (infectious) cases notified was 1 431 413, or 40% of the estimated global total.

The number of new smear-positive TB cases notified (detected) by DOTS programmes was 767 235 in 1998, 21% of estimated global incidence. This detection rate has doubled since 1995. The number of cases reported under DOTS has increased by about 120 000/year on average since 1994, although recruitment accelerated somewhat between 1997 and 1998 (an extra 219 803 cases reported). At the slower average rate of increase in case finding—which is slightly faster than measured last year—70% of cases would be treated in DOTS programmes by 2012. If 250 000 extra cases were recruited each year, DOTS would be available to 70% of cases by 2005. Whilst the smear-positive case detection rate under DOTS has been growing at 3.5%/year since 1994, the overall smear-positive case detection rate has grown at only 1.7%/year. Therefore DOTS programmes are recruiting cases that would have been notified under non-DOTS programmes.

Most DOTS programmes have demonstrated again that they can achieve high treatment success rates. The average for the 1997 cohort was 82% in the 22 high-burden countries (3% less than the target) and 78% globally.

Five high-burden countries significantly expanded case detection, whilst maintaining high treatment success rates. They are China (83 000 additional smear-positives), South Africa (16 000), India (12 000), Bangladesh (12 000) and the Philippines (11 000); the case detection rate accelerated in all except Bangladesh. Indonesia and Thailand improved case detection, but at the expense of lower treatment success. Afghanistan, Pakistan, the Russian Federation and Uganda all reported low treatment success and/or low case detection rates for 1997/8. Peru and Viet Nam are the only two high-burden countries to have met the WHO targets for case detection and treatment success. Four smaller countries have also met the targets: Cuba, Maldives, Oman and the Solomon Islands. A total of 30 reporting

This report updates information on temporal trends in notifications, but also highlights, for the first time, regional variation in the age and sex distributions of notified cases. The analysis is intended to raise questions (rather than give answers) about how the age and sex of TB cases is influenced by reporting biases, by transmission rate, by TB/HIV co-infection in Africa, by the resurgence of TB in Eastern Europe, and by the decline of TB in industrialized countries.

Conclusion

Progress in global TB control accelerated between 1997 and 1998. DOTS programmes reported the biggest annual increase in case detection so far, whilst maintaining high rates of treatment success. But there are two important caveats. First, whilst the rate of case finding under DOTS appears to have increased, the increase is small. Second, the gains of 1997/8 were made partly by transferring to DOTS programmes cases that would have been notified anyway. Thus, to reach global targets, most countries will have to introduce innovative methods to find and treat cases that are not yet notified. In sum, we can make no firm predictions about whether global targets will be reached by 2005, 2012, earlier, or later.

By the end of 1998, there were still only two high-burden countries that had reached WHO targets for case detection and treatment success, Peru and Viet Nam. With solid national TB control programmes, these two countries now have the potential to diversify by adopting a wider range of impact indicators to quantify, e.g. the decline in incidence, and by addressing special problems in TB control, such as the treatment of multi-drug resistant disease.

Introduction

Following a 1991 World Health Assembly¹ resolution, WHO has urged each National Tuberculosis Control Programme (NTP) to work towards two objectives (the "WHO targets") by the year 2000: (1) to treat successfully 85% of detected smear-positive cases, and (2) to detect 70% of all such cases, by the introduction of an effective approach to TB control.²

To assess the magnitude of the global tuberculosis problem, and to measure the achievements of TB control, WHO established a worldwide surveillance and monitoring project in 1995. The global status of TB control and progress towards achieving the WHO targets were reviewed in 1997,^{3,4} 1998^{5,6} and 1999.⁷ The main findings of the last report were:

- ▶ By the end of 1997, 85% of all TB cases were living in 102 countries which had adopted the WHO DOTS strategy for control.
- ➤ The key to meeting WHO targets lies in expanding case detection in high-burden DOTS countries: in 1997, 83% (2.5 million) of all unnotified TB cases were living in countries which have already shown that they can achieve high treatment success rates by using DOTS.
- ➤ The greatest number of cases without access to good treatment was in Asia, especially Bangladesh, India, Indonesia, Pakistan and Philippines.
- The number of new smear-positive TB cases notified by DOTS programmes has increased by an average of 100 000/year since 1994, reaching 16% of all estimated cases in 1997. By adding 250 000 extra cases each year (10% of the unnotified cases living in DOTS countries), the global target of 70% case detection could be reached by 2005.
- DOTS can succeed in a variety of settings: among major endemic countries showing high treatment success (≥70%) and case detection rates (≥50%) were representatives from Africa (Tanzania), Asia (Cambodia, Viet Nam) and Latin America (Peru).
- Marked upward trends in case notification rates from 1980 to 1997 variously reflect failing TB control (Eastern Europe), the impact of HIV (sub-Saharan Africa), and better case finding (China); marked downward trends (Western Europe) represent the direct (chemotherapy against TB) and indirect (general improvements in health) impact of TB control.
- > Standardized short-course chemotherapy, promptly delivered, can have a major impact on tuberculosis morbidity and mortality, but this impact has not yet been adequately quantified.

Forty-Fourth World Health Assembly, Geneva, 6-16 May 1991. Resolutions and decisions. Geneva, Switzerland: World Health Organization 1991. WHA44/1991/REC/1.

² World Health Organization. WHO Tuberculosis Programme: Framework for effective tuberculosis control. Geneva, Switzerland: World Health Organization 1994. WHO/TB/94.179.

³ Raviglione MC, Dye C, Schmidt S, Kochi A. Assessment of worldwide tuberculosis control. *Lancet* 1997; 350: 624-29.

World Health Organization. Global Tuberculosis Programme. Global Tuberculosis Control.WHO Report 1997. WHO/TB/97.225

World Health Organization. Global Tuberculosis Programme. Global Tuberculosis Control. WHO Report 1998. WHO/TB/98.237.

Netto E, Dye C, Raviglione MR. Progress in global tuberculosis control 1995-6, with emphasis on 22 highburden countries. Int J Tuberc Lung Dis 1999; 3: 310-320.

World Health Organization. Global Tuberculosis Control. WHO Report 1999. WHO/CDS/CPC/TB/99.259.

This report is the fourth in the series. It presents data available at 24 January 2000 on case notifications for 1998, treatment results for patients registered in 1997, and the status of DOTS implementation by the end of 1998. This information is supplemented, where possible, with the latest data on progress made by countries during 1999. We compare the new information with those in previous reports (data from 1994 onwards), paying special attention to progress in the 22 highest-burden countries, which account for 80% of all new TB cases. As in past years, the primary aim is to assess progress towards meeting WHO targets for case detection and cure.

Methods

Methods were similar to those described previously^{5,6,7} but are nevertheless repeated here in full. An important advance in tuberculosis monitoring and surveillance is the Computerized Information System for Infectious Diseases (CISID), developed during 1999 at WHO's European Regional Office (EURO).

Data collection

In July and August 1999, TB data collection forms (Annex 1) were sent out to 211 countries and territories via the WHO Regional Offices.8 These forms follow WHO/IUATLD guidelines on recording and reporting, and are accompanied by detailed instructions and definitions. We asked for information on TB control policy as of 31 December 1998, cases reported for 1998, and treatment outcomes among patients registered during 1997. The information about treatment outcome always lags notifications by one year because treatment success is evaluated after a patient has completed treatment, which usually lasts 6-9 months.

The form is divided into two parts (Annex 1). Part A is designed for those countries or areas within countries that have adopted the WHO TB control strategy (DOTS). It asks for, among other things:

- ➤ the number and types of TB cases notified: pulmonary (sputum smear-positive—new cases and relapses, sputum smear-negative) and extrapulmonary; new, relapse and retreatment
- age and gender of new smear-positive cases
- treatment results of sputum smear-positive cases (new and retreatment).

During 1999, part A was extended to allow countries (mainly European) the option of defining cases and treatment outcomes on the basis of bacteriological culture, in addition to sputum smears (Annex 1).

Part B is for countries and areas within countries where DOTS has not been implemented, and is less demanding of data. Countries are not asked to provide data on retreatment cases, or to record smear conversions at 2 months.

With these data we can analyse the performance of the NTP according to the type of control strategy used. In particular, data from countries that have adopted DOTS—and have therefore used standard definitions and a standard recording and reporting system can be assessed separately.

Late reports (received after 24 January 2000) will be used to update the database (Annex 7 contains the updated global profile for 1996/7). Case notifications for all European countries will be supplied later during 2000 by EuroTB (CESES). These may include some adjustments to the numbers of cases; EuroTB data are considered to be definitive and final.

Computer software for TB surveillance

Reports (completed WHO data collection forms) are sent to WHO regional offices, electronically for the most part (email, fax), and entered manually, with two important exceptions: (1) in Europe, for the first time this year, countries could report via the CISID website

⁸ Four territories (Guadeloupe, French Guyana, Martinique and La Reunion) which have been listed separately in previous years, are now included with France as overseas departments of that country. The Liechtenstein report, which was listed separately last year, is now included with Switzerland.

of the WHO regoinal office (http://cisid.who.dk/tb), receiving immediate feedback on the regional situation, and (2) in any region, countries may report using WHO software which creates a report to be stored as a data file. In terms of software, an EpiInfo application (TBDATA) has been available for several years as an electronic version of the data collection form in which data are saved as a data file. A second EpiInfo application (EPICENTRE) is designed as a database for national programmes to manage their data from quarterly district reports and to carry out recommended analyses. Among its automated outputs is a report to WHO, saved as a data file. EPICENTRE has been used successfully in Nepal and India, and is being adopted by several other countries in the South-East Asia Region. Each of these tools—the European WHO website (CISID), the electronic version of the data collection form (TBDATA), and the database for TB programmes (EPICENTRE)—improve data transfer efficiency and help to ensure data quality.

Data verification

Each data form submitted by a country was first reviewed in the relevant WHO country and regional office, and then by the Communicable Diseases programme in Geneva. Inconsistencies in the data were followed up with NTP managers, or with other responsible persons in countries.

Data management

Data were stored and managed with Microsoft Access 97.A customised computer program provides:

- > Regional Profiles, which list data on case notifications and treatment results for each country, and according to the control strategy used (Annex 3)
- ➤ *Global Profile*, which lists the same information by region (Annex 2)

A Microsoft Excel 97 program also tabulates the total number of cases notified since 1980. Since 1995, notifications have been stratified by age, gender and type of TB (as for part A of the form, above).

Data analysis

Categorization of countries

A qualitative (or semi-quantitative) categorization of progress in TB control is shown in Figure 1, with definitions in Table 1. A country was considered as implementing the DOTS strategy if, by 31 December 1998, it:

➤ Had a national TB control policy based on WHO recommendations. This requires (1) a national TB manual, or a document issued by the government or an authorised scientific body, including policy recommendations endorsed by WHO, and (2) that a "WHO standard" training

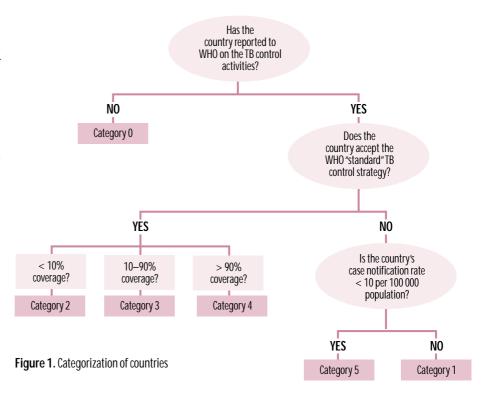


Table 1. Categorization of countries

| Category | Definition |
|----------|--|
| 0 | Countries not reporting to WHO. |
| 1 | Countries not implementing the DOTS strategy and having a case notification rate of over 10 cases per 100 000 population. |
| 2 | Countries implementing the DOTS strategy in less than 10% of the total population (pilot phase). |
| 3 | Countries implementing the DOTS strategy in 10 to 90% of the total population (expansion phase). |
| 4 | Countries implementing the DOTS strategy in over 90% of the total population (routine implementation). |
| 5 | Countries not implementing the DOTS strategy but having a case notification rate of less than 10 cases per 100 000 population (low incidence). |

Table 2. Technical elements of the WHO TB control strategy (DOTS)

Microscopy Case detection among symptomatic patients self-reporting to health services, utilising sputum smear microscopy;

SCC/DOT Administration of standardised short-course chemotherapy (SCC) to at least all confirmed sputum smear-positive cases under proper case management conditions (Directly Observed Therapy—DOT—during at least the intensive phase of treatment);

Drug Supply Establishment of a system of regular drug supply of all essential antituberculosis drugs to ensure no interruption in their availability;

Recording and Reporting Establishment and maintenance of a standardised recording and reporting system, allowing assessment of treatment results (see Table 5).

- In countries which can afford sputum culture, culture can be used for diagnosis, but direct sputum smear microscopy should still be performed for all suspected cases.9
- **In industrialized countries achieving high treatment success rates, Directly Observed Therapy may be reserved for a subset of patients, as long as cohort analysis of treatment results is provided to document the outcome of all cases.

course on management of tuberculosis control programmes has been carried out within the past two years. Alternatively, there should be available training materials endorsed by WHO or IUATLD, and which contain the essential elements of DOTS.

➤ Complied with all of the DOTS strategy's technical elements (Table 2), and reported to WHO on notifications and treatment outcomes from DOTS areas.

If DOTS was implemented only in some districts (or equivalent administrative units) on the initiative of local authorities, but the policy was endorsed by national authorities, the country was classified as a DOTS country. If a country reported that DOTS was newly implemented during 1998, and that the results of cohort analysis were therefore not yet available, it was classified as a DOTS country, provided 1998 case notifications from DOTS areas were available.

This system of categorization provides a first impression of each country's progress in TB control. However, WHO targets are expressed more stringently in terms of treatment success and the case detection rate. TB control should ensure high treatment success before expanding case finding. The reason is that a proportion of patients given less than a fully-curative course of treatment remain chronically infectious, and continue to spread TB. Thus DOTS programmes must be shown to achieve high cure rates in pilot projects before attempting country-wide coverage. Case detection and treatment success rates are defined and measured as described in the following section.

Table 3. Definitions of TB cases

New smear-positive pulmonary TB in a patient with at least two initial sputum smear examinations (direct smear microscopy) positive for acid fast bacilli (AFB+); or TB in a patient with one sputum examination AFB+ and radiographic abnormalities consistent with active pulmonary TB as determined by the treating medical officer; or TB in a patient with one sputum specimen AFB+ and culture positive for AFB.

New smear-negative pulmonary TB in a patient with symptoms suggestive of TB and at least three sputum smear examinations negative for AFB, and with radiographic abnormalities consistent with active pulmonary TB determined by a medical officer followed by a decision to treat the patient with a full course of anti-tuberculosis therapy; or diagnosis based on positive culture but negative AFB sputum examinations.

Extrapulmonary Patient with tuberculosis of organs other than the lungs

Retreatment Failures, treatment interrupted (defaulters), and relapses (see box 'Definitions of treatment outcomes').

Relapse Patient previously declared cured and diagnosed with sputum smear-positive tuberculosis

Rieder HL, Watson JL, Raviglione MC et al. Surveillance of tuberculosis in Europe. Eur Respir J 1996; 9: 1097-1104

Based on the data provided on parts A and B of the form, we made separate assessments of TB programmes in DOTS and non-DOTS areas. 1998 case notifications distinguished between all types of TB and sputum smear-positive cases (or culture-positive cases, in some countries). Table 3 contains the standard case definitions. As an indicator of each NTP's ability to detect and identify smear-positive cases we calculated the proportion of new sputum smear-positive cases out of all new pulmonary cases (expected value 55–70%).

Case notifications represent only a fraction of the true number of cases arising in a country because of incomplete coverage by health services, inaccurate diagnosis, or deficient recording and reporting. The estimated case detection rate is defined as:

though we also make reference to the detection rate of all forms of TB.A stricter measure of case finding is the fraction of all incident smear-positive cases which are detected (and potentially treated) by DOTS programmes:

"Case detection rate" (CDR) and "DOTS detection rate" (DDR) are identical when a country has 100% DOTS coverage. The denominators for 1998 case detection rates are 1997 estimates of the smear-positive incidence rate, ¹⁰ re-scaled with 1998 population sizes¹¹ (Map 1, Annex 4). The denominators for 1995–97 were back-calculated from 1997 estimates, allowing for changes in total population size, but not for any changes in the incidence rate. Many of these incidence estimates were obtained by making an independent assessment of the case detection rate. In such instances, the above formulae do not provide new estimates of the case detection rate; they merely return us, by circular reasoning, to our original assumption. Some caution is therefore needed when assessing changes in the case detection rate, especially for countries in which HIV has been responsible for a rise in case notifications (Map 2,Annex 4). It is equally important to remember that the incidence estimates for each country are subject to error: for high-burden countries, the difference between lower and upper estimates of incidence is typically twofold. ¹⁰ Estimated incidence rates for the 22 highest-burden countries in 1998 are in Table 4. Incidence estimates are available for all countries, including those not reporting to WHO.

Treatment success and cure rate

To assess the quality of treatment programmes for new infectious cases, we first determined what fraction of registered cases was evaluated for outcome. All registered cases should be evaluated. Second, we compiled the six standard, mutually exclusive outcomes of treatment in Table 5. "Treatment success" (TS) is defined as the proportion of patients who were cured plus the proportion who completed treatment. These figures are reported, where possible, as percentages of all registered cases, so that the six possible outcomes plus the fraction of cases not evaluated sum to 100%. In some instances, countries state the number of patients registered for treatment, but give no outcomes. When this happens, we report no result, rather than zero treatment success (see Table 13). In other instances, the number of registered cases is less than the number evaluated; then we use the number

¹⁰ Dye C, Scheele S, Dolin P, Pathania V, Raviglione MC. Global burden of tuberculosis: estimated incidence, prevalence and mortality by country. *JAMA* 1999; 282, 677-686.

¹¹ Population data used in this report come from UN Population Division, *World Population Prospects*, 1998 revision

Table 4. Estimated incidence of TB: 22 high-burden countries, 1998

| | | | Number e | estimated | | |
|---|-------------------|-----------|--------------|-----------|---------------|--------------------------|
| | | All c | ases | Smear-p | ositive cases | _ |
| Country (ranked by burden) | Population x 1000 | Thousands | rate/100 000 | Thousands | rate/100 000 | Cumulative incidence (%) |
| 1 India | 982 223 | 1 828 | 186.1 | 818 | 83.3 | 23 |
| 2 China | 1 255 698 | 1 414 | 112.6 | 636 | 50.7 | 40 |
| 3 Indonesia | 206 338 | 591 | 286.6 | 266 | 128.7 | 47 |
| 4 Bangladesh | 124 774 | 305 | 244.7 | 137 | 110.1 | 51 |
| 5 Pakistan | 148 166 | 268 | 181 | 120 | 81.3 | 55 |
| 6 Nigeria | 106 409 | 259 | 243.4 | 113 | 106.1 | 58 |
| 7 Philippines (the) | 72 944 | 224 | 306.7 | 101 | 137.9 | 61 |
| 8 South Africa | 39 357 | 172 | 437.9 | 70 | 177.3 | 63 |
| 9 Ethiopia | 59 649 | 160 | 268.6 | 67 | 112.8 | 65 |
| 10 Viet Nam | 77 562 | 147 | 189.3 | 66 | 85.2 | 66 |
| 11 Russian Federation (the) | 147 434 | 156 | 105.7 | 70 | 47.5 | 68 |
| 12 Democratic Republic of the Congo (the) | 49 139 | 130 | 263.7 | 55 | 112.1 | 70 |
| 13 Brazil | 165 851 | 124 | 74.7 | 55 | 33.3 | 71 |
| 14 United Republic of Tanzania (the) | 32 102 | 99 | 308.6 | 41 | 127.5 | 73 |
| 15 Kenya | 29 008 | 86 | 296.8 | 35 | 121.7 | 74 |
| 16 Thailand | 60 300 | 85 | 140.9 | 37 | 62 | 75 |
| 17 Myanmar | 44 497 | 81 | 181.9 | 36 | 81.9 | 76 |
| 18 Afghanistan | 21 354 | 75 | 353.1 | 34 | 158.9 | 77 |
| 19 Uganda | 20 554 | 68 | 332.3 | 27 | 132.9 | 78 |
| 20 Peru | 24 797 | 66 | 265 | 29 | 118.7 | 78 |
| 21 Zimbabwe | 11 377 | 64 | 560.1 | 25 | 215.6 | 79 |
| 22 Cambodia | 10 716 | 58 | 540.5 | 26 | 241.6 | 80 |
| total, 22 high-burden countries | 3 690 248 | 6 461 | 175.1 | 2 866 | 77.7 | 80 |
| Global total | 5 898 152 | 8 083 | 137 | 3 574 | 60.6 | 100 |

Table 5. Definitions of treatment outcomes

Cured Initially smear-positive patient who had a negative sputum smear or after treatment completion, and on at least one previous occasion*.

Completed treatment Sputum smear-positive patient who had negative sputum smear results at the end of the initial phase of treatment, with no or only one negative sputum smear result in the continuation phase and none at the end of treatment.

Died Patient who died during treatment, irrespective of cause.

Failure Smear-positive patient who remained or became smear-positive again at least 5 months after the start of treatment.

Interrupted treatment (defaulted) Patient who did not collect drugs for 2 months or more at any time after registration.

Transferred out Patient who was transferred to another reporting unit and his/her treatment results are not known.

Treatment success The sum of the percentage of cases cured and that of cases who completed treatment.

evaluated as the denominator for treatment success. Although these treatment outcomes are expressed as percentages, they are usually referred to as 'rates'. Data describing the outcome of retreatment were collected only from DOTS areas because the definitions of 'failure' and 'relapse' require data on smear conversion (Tables 3 and 5).

To assess the capacity of each NTP to retain patients and to maintain consistent records between years, we also compared the number of cases registered for treatment in 1997 (reported in 1998) with the number of cases notified as smear-positive in 1997 (reported in 1997). These numbers should be the same.

^{*} Some European countries define cure in terms of culture conversion, rather than sputum smear conversion¹²

¹² Veen J, Raviglione MC, Rieder HL et al. Standardized tuberculosis treatment outcome monitoring in Europe. Eur Respir J 1998; 12: 505-510.

Results

Global and regional progress in TB control

Countries reporting to WHO

By 24 January 2000, 189 (90%) of 211 countries reported case notifications for 1998 and/or $treatment\ outcomes\ for\ patients\ registered\ in\ 1997, seven\ more\ than\ last\ year.\ Ninety-eight$ percent of the global population lives in these countries (Annexes 2 and 3). All countries with population sizes of more than 50 million reported to WHO. We received reports from all 22 high-burden countries, and from all countries in the Eastern Mediterranean and South-

Table 6a. List of countries adopting and implementing DOTS, 1998

| Category 2 (13 countries) | Category 3 (40 countries) | Category 4 (66 countries) | |
|---------------------------------|--|--------------------------------------|-----------------------------------|
| Brazil | Afghanistan | Andorra | <u>Mongolia</u> |
| Burundi | Angola | Benin | Morocco |
| Dominica | Argentina | Bhutan | <u>Mozambique</u> |
| łaiti | Armenia | Botswana | Namibia |
| londuras | Australia | Burkina Faso | Netherlands (the) |
| ndia | Azerbaijan | Cambodia | Nicaragua |
| (azakhstan | Bangladesh | Chile | Norway |
| Pakistan | Bolivia | China, Macao SAR | Oman |
| Panama | Bosnia and Herzegovina | Colombia | Peru |
| Papua New Guinea | Cameroon | Congo (the) | Portugal |
| Poland | China | Côte d'Ivoire | Puerto Rico |
| Russian Federation (the) | Cook Islands | Cuba | Qatar |
| Uzbekistan | Democratic Republic of the Congo (the) | Cyprus | Republic of Korea (the) |
| | Ecuador | Czech Republic (the) | Romania |
| | Egypt | Djibouti | Rwanda |
| | El Salvador | Equatorial Guinea | Saint Kitts and Nevis |
| | Eritrea | Fiji | Saint Vincent and the Grenadine |
| | Ethiopia | French Polynesia | Senegal |
| | Ghana | Georgia | Seychelles |
| | Indonesia | Guatemala | Sierra Leone |
| | Iran (Islamic Republic of) | Guinea | Slovakia |
| | Iraq | Israel | Slovenia |
| | Italy | Jamaica | Solomon Islands |
| | Lao People's Democratic Republic (the) | Jordan | Sri Lanka |
| | Liberia | Kenya | Togo |
| | Mali | <u>Kiribati</u> | <u>Tonga</u> |
| | Marshall Islands (the) | <u>Kırıbatı</u> <u>Kyrgyzstan</u> | Uganda |
| | Mexico | <u>kyrgyzstari</u> Latvia | United Republic of Tanzania (the) |
| | Myanmar | Madagascar | United States of America (the) |
| Bold: countries which | Nepal | Malawi | Uruguay |
| implemented DOTS in 1998 | Niger (the) | Maldives | Venezuela |
| <i>Italics:</i> countries which | Nigeria | Malta | Veriezuera Viet Nam |
| moved one or more | Philippines (the) | Mauritius | Zimbabwe |
| categories down since 1997 | Saint Lucia | ividuiTtius | Ziiiibabwe |
| due to re-evaluation of | Somalia | | |
| coverage | South Africa | | |
| Underline: countries which | Sudan (the) | | |
| moved one or more | Syrian Arab Republic (the) | | |
| categories up since 1997 | Thailand | | |
| acegories up silice 1771 | Yemen | | |

Table 6b. List of countries not implementing DOTS or not reporting to WHO, 1998

| Category 0 (22 countries) | Category 1 (55 countries) | | Category 5 (15 countries) |
|---------------------------|---------------------------------|----------------------------------|--|
| American Samoa | Albania | Kuwait | British Virgin Islands |
| Anguilla | Algeria | Lebanon | Cayman Islands |
| Antigua and Barbuda | Austria | Libyan Arab Jamahiriya (the) | Grenada |
| Bermuda | Bahamas (the) | Lithuania | Iceland |
| Brunei Darussalam | Bahrain | Luxembourg | Monaco |
| Canada | Barbados | Malaysia | Montserrat |
| Comoros (the) | Belarus | Micronesia (Federated States of) | Netherlands Antilles |
| France | Belgium | Paraguay | New Zealand |
| Gambia (the) | Belize | Republic of Moldova (the) | Niue |
| Guam | Bulgaria | Samoa | Northern Mariana Islands |
| Guinea-Bissau | Cape Verde | Saudi Arabia | San Marino |
| Lesotho | Central African Republic (the) | Singapore | Sweden |
| Mauritania | Chad | Spain | Turks and Caicos Islands |
| Nauru | China, Hong Kong SAR | Suriname | Tuvalu |
| New Caledonia | Costa Rica | Switzerland | United States Virgin Islands |
| Palau | Croatia | Tajikistan | , and the second |
| Sao Tome and Principe | Democratic People's Republic of | The former Yugoslav Republic of | |
| St. Helena | Korea (the) | Macedonia | |
| Swaziland | Denmark | Trinidad and Tobago | |
| Tokelau | Dominican Republic (the) | Tunisia | |
| Wallis and Futuna Islands | Estonia | Turkey | |
| Zambia | Finland | Turkmenistan | |
| | Gabon | Ukraine | |
| | Germany | United Arab Emirates (the) | Bold: countries which reported in 1997 |
| | Greece | United Kingdom (the) | but not in 1998 (4 countries which |
| | Guyana | Vanuatu | submitted DOTS reports in 1997, |
| | Hungary | West Bank and Gaza | 5 countries which submitted non-DOTS |
| | Ireland | Yugoslavia | reports in 1997) |
| | Japan | - | |

East Asia Regions (Tables 6a and 6b). Twenty-two countries did not report, 21 of which were in Africa, the Americas and the Western Pacific Region. In terms of TB burden, the most important omission was Zambia. All industrialized countries reported, except France (the only missing European country) and Canada.

Six countries (India, Malawi, Nepal, Seychelles, Uganda and Venezuela) submitted reports using TBDATA or EPI-CENTRE. Eight European countries submitted data via the CISID website (Belgium, Denmark, Finland, Iceland, Latvia, Norway, The Netherlands and

Figure 2. Number of countries which have adopted DOTS, 1990–98



Slovakia). Twelve DOTS countries and 16 non-DOTS countries in Europe identified TB cases based on bacteriological culture, in addition to the results of sputum smear examinations.

Categorization of countries, 1995–98

The number of countries using DOTS has been increasing since 1990, reaching 119 (56%) in 1998 (Figure 2, Table 6a). Four countries classified as DOTS based on 1997 data did not report this year, whereas 16 countries were classified as DOTS for the first time in 1998. Of the 211 countries and territories, 66 (31%) had implemented DOTS in over 90% of the country (category 4; Figures 3 and 4, Annexes 2 and 3, Map 3 in Annex 4). Thirteen countries were in the DOTS pilot phase (category 2), and 40 were in the ex-

Figure 3. Changes in the categorization of countries, 1995–98, according to the scheme in Figure 1

pansion phase (category 3). Since 1995, countries have been moving out of category 1 and into categories 2 to 4 (DOTS).

By the end of 1998, 43% of the global population was living in countries, or parts of countries, which had adopted DOTS (categories 2-4). Reported DOTS population coverage was greatest in the Western Pacific (58%), African (61%) and American Regions (59%) in 1998, and relatively low in the other three regions (Figure 5, Table 7, Annex 2). Table 8 tabulates DOTS coverage for the 22 high-burden countries from 1995 to 1998 (see also Annex 3).

Sixteen countries implemented DOTS for the first time in 1998 (Table 6a). Five achieved low coverage (< 10%, Category 2): Brazil, Kazakhstan, Panama, Poland and Uzbekistan. Four achieved moderate coverage (10-90%, Category 3): Australia, Bosnia and Herzegovina, Iraq and the Marshall Islands. The remaining six reached high coverage (> 90%), including Colombia, Cyprus, Romania and Zimbabwe. Mexico, Sudan and Thailand moved up to category 3 in 1998. According to reports, nine countries moved up to category 4 from categories 2 or 3, including Burkina Faso, Cambodia, Mongolia, Mozambique, Sierra Leone and Togo. Four countries that had implemented DOTS by 1997 failed to provide data for 1998: American Samoa, the Gambia, Lesotho and Palau (Table 6b).

Figure 4. Proportions of countries with different levels of DOTS coverage, 1998

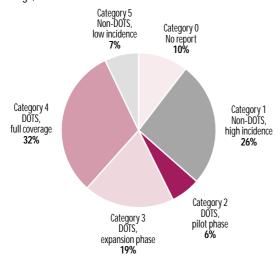


Figure 5. DOTS population coverage by WHO Region, 1998. Each bar shows the population of the region, and the lower portion of the bar shows the population covered by DOTS. The number above each bar is the percentage of the population covered.

AFR: African Region; EMR: Eastern Mediterranean Region; EUR: European Region; SEAR: South-East Asia Region; WPR: Western Pacific Region

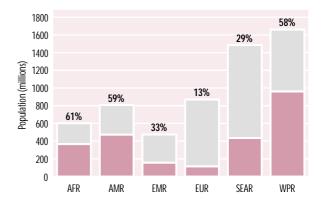


Table 7. Summary of notifications by WHO Region, 1998

| | | % of pop | Notific | ations | New ss+ notifs | ss+ % of all pulmonary |
|--------|-----------|----------|-----------|--------|----------------|------------------------|
| | | | Number | % | | |
| AFR | DOTS | 61.0 | 495 736 | 76.6 | 249 692 | 63.4 |
| | non-DOTS | 36.1 | 151 106 | 23.4 | 86 181 | 71.9 |
| | no report | 2.9 | | | | |
| | Totaİ | | 646 842 | | 335 873 | |
| AMR | DOTS | 58.7 | 116 816 | 49.2 | 71 044 | 74.8 |
| | non-DOTS | 37.5 | 120 630 | 50.8 | 58 950 | 60.5 |
| | no report | 3.8 | | | | |
| | Total | | 237 446 | | 129 994 | |
| EMR | DOTS | 33.1 | 79 133 | 33.7 | 41 298 | 76.4 |
| | non-DOTS | 66.9 | 155 909 | 66.3 | 33 584 | 25.5 |
| | no report | | | | | |
| | Total | | 235 042 | | 74 882 | |
| EUR | DOTS | 13.3 | 53 662 | 15.3 | 18 957 | 48.0 |
| | non-DOTS | 80.0 | 297 859 | 84.7 | 92 414 | 36.2 |
| | no report | 6.7 | | | | |
| | Total | | 351 521 | | 111 371 | |
| SEAR | DOTS | 29.3 | 168 844 | 12.9 | 103 498 | 69.1 |
| | non-DOTS | 70.7 | 1 138 331 | 87.1 | 284 450 | 26.7 |
| | no report | | | | | |
| | Total | | 1 307 175 | | 387 948 | |
| WPR | DOTS | 57.9 | 495 903 | 59.1 | 282 746 | 61.8 |
| | non-DOTS | 42.0 | 343 116 | 40.9 | 108 599 | 35.9 |
| | no report | | | | | |
| | Totaİ | | 839 019 | | 391 345 | |
| Global | DOTS | 42.6 | 1 410 094 | 39 | 767 235 | 64.5 |
| | non-DOTS | 55.6 | 2 206 951 | 61 | 664 178 | 33.7 |
| | no report | 1.8 | | | | |
| | Totaİ | | 3 617 045 | | 1 431 413 | |

 $Percent of population: the \ regional \ non-DOTS \ population \ includes \ the \ non-DOTS \ portion \ of \ DOTS \ countries \ and \ the \ entire \ population \ of \ non-DOTS \ portion \ of \ population \ of \$ reporting countries.

Table 8. Progress in DOTS implementation: 22 high-burden countries, 1995–98

| | | Percent of | population (| overed by D | OTS services |
|----|---------------------------------------|------------|--------------|-------------|--------------|
| | _ | 1995 | 1996 | 1997 | 1998 |
| 1 | India | 1 | 2 | 2 | 9 |
| 2 | China | 49 | 60 | 64 | 64 |
| 3 | Indonesia | 6 | 14 | 28 | 80 |
| 4 | Bangladesh | 41 | 65 | 80 | 90 |
| 5 | Pakistan | 2 | 8 | | 8 |
| 6 | Nigeria | 47 | 30 | 40 | 45 |
| 7 | Philippines (the) | 4 | 2 | 15 | 17 |
| 8 | South Africa | | | 13 | 22 |
| 9 | Ethiopia | 39 | 39 | 48 | 64 |
| 10 | Viet Nam | 50 | 95 | 93 | 96 |
| 11 | Russian Federation (the) | | 2 | 2 | 5 |
| 12 | Democratic Republic of the Congo (the |) 47 | 51 | 60 | 60 |
| 13 | Brazil | | | | 3 |
| 14 | United Republic of Tanzania (the) | 98 | 100 | 100 | 100 |
| 15 | Kenya | 15 | 100 | 100 | 100 |
| 16 | Thailand | | 1 | 4 | 32 |
| 17 | Myanmar | | 59 | 60 | 60 |
| 18 | Afghanistan | | | 12 | 11 |
| 19 | Uganda | | | 100 | 100 |
| 20 | Peru | 100 | 100 | 100 | 100 |
| 21 | Zimbabwe | | | | 100 |
| 22 | Cambodia | 60 | 80 | 88 | 100 |
| | all high-burden countries | 25 | 32 | 36 | 43 |
| | all other countries | 19 | 32 | 35 | 42 |
| | Global | 22 | 32 | 35 | 43 |

Case notifications, 1995–98

The 189 countries reporting to WHO notified a total of 3 617 045 cases (61 per 100 000 population), of which 1 431 413 (40%) were sputum smear-positive (Table 7). These totals compare with 3 368 879 and 1 292 884 for 1997. The total number of notified cases was 7% higher in 1998, and the number of smear-positive cases was 11% higher.

Among all cases reported for 1998, 1 410 094 (39%) originated in DOTS areas (Table 7, Annex 2), a 42% increase on 1997. Among smear-positive cases, 767 235 (54%) were re-

ported from DOTS areas, 40% higher than in 1997. The African (18%), South-East Asia (36%) and Western Pacific Regions (23%) together accounted for 77% of all notified cases and 78% of sputum smear-positive cases (Figure 6).

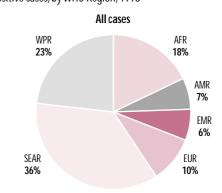
In DOTS areas, 54% of all cases were smear-positive (45-60% expected), compared with 30% in other areas. Sixty-five percent of new pulmonary cases were sputum smear-positive in DOTS areas (55-70% expected), compared with 34% elsewhere (Tables 7 and 9). These figures are almost identical to those for 1997.

The annual increments in smear-positive cases detected by DOTS programmes between the five years 1994 to 1998 were: 127 850, 116 462, 54 658 and 219 803; that is, an average of 129 693 extra cases each year. The annual increments in all cases detected by DOTS programmes between 1995 and 1998 were 191 504, 104 329 and 418 034. Thus, last year's increases in smear-positive and all cases are the biggest recorded so far.

As shown in last year's report, the global notification rate has remained more or less stable since 1980, but for some deviations due mainly to re-evaluations of case numbers in India and Indonesia, and to missing data from Pakistan (Figure 7). Figure 8 updates information on regional variation in epidemic trajectories, highlighting temporal trends by expressing notification rates relative to an arbitrary standard of 100 in 1990 (thereby eliminating much of the absolute difference between countries). To recap, the standardized rate for 12 countries in Western Europe shows a steady average decline of 4%/year (Figure 8a). The rate for 11 countries in Eastern Europe also shows the same decline of 4%/year until 1990, but has been rising at 10%/year since 1992 (Figure 8b). In 14 countries of the African Region, notifications were more or less stable from 1980 to 1988, but have increased at 10%/year since then (Figure 8c), the same rate as Eastern Europe. Notifications from 11 Latin American countries have been in continuous, gentle decline of 2%/year since 1980 (Figure 8d). In a selection of Asian countries, the notification rate has increased slowly at 1-2%/year over the period 1980-98 (Figure 8e; Indonesia reported an extraordinarily large number of cases in 1991; these data were therefore excluded).

Figure 9 shows the distribution of smear-positive case notifications by age and sex, arranging groups of countries (approximately) according to the average age of cases. The peak notification rate was in age class 15-24 years in the three highest incidence countries of Latin America (Figure 9a). By contrast, the highest notification rate was in people over 65 years in the lower incidence

Figure 6. Proportions of all notified cases, and smear-positive cases, by WHO Region, 1998



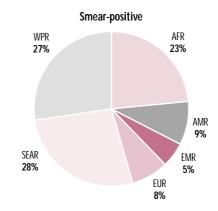
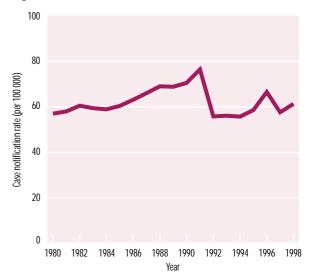
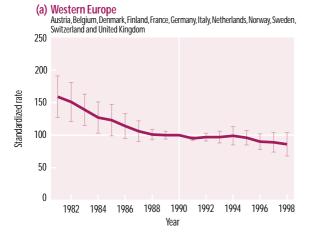


Figure 7. Global trend in case notification rate, 1980–98

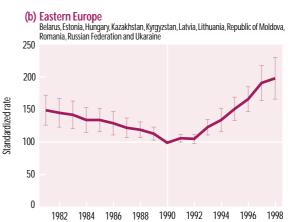


countries of Latin America (Figure 9f; note change of scale on y-axis), in most countries of the Western Pacific Region (Figure 9g), and in industrialized countries (Figure 9h). Other groupings of countries lie between these extremes. For African countries with high rates of HIV infection (Figure 9b), incidence was maximum in age class 25-34 years for women and 35-44 years for men. Eastern European countries (Figure 9c) showed the greatest discrepancy between men and women. The male:female ratio for age class 45-54 years exceeded 6, the highest for these eight groups of countries. The notification rate for men was at a maximum in this age class, but the peak rate for women was at a much younger age (25-34 years). For countries in the Eastern Mediterranean (Figure 9d) and South-East Asia Regions (Figure 9e), the notification rate was highest at age 55-64 years, but the rates for ages 25-54 years were not much lower.









Year



Figure 8. Trend in case notification rates for selected countries in different regions, 1980–98. (a) Western Europe, (b) Eastern Europe, (c) Sub-Saharan Africa, (d) Latin America, (e) South Asia. To highlight trends in notifications within regions, the rates for all countries have been expressed relative to an arbitrary standard of 100 in 1990: error bars are 95% CL on the standardized rates. Countries selected in each region are those which have provided consistent notification data 1980–98.

Figure 9. Incidence rates by age and sex for different regions, 1998. (a) High incidence countries in Latin America, (b) Sub-Saharan Africa, (c) Eastern Europe, (d) Eastern Mediterranean Region (e) South-East Asia Region, (f) Latin American (excluding high incidence countries) (g) Western Pacific Region (excluding industrialized countries), (h) Industrialized countries. Thick line—males; thin line—females; dotted line—ratio of incidence rate in males to incidence rate in females

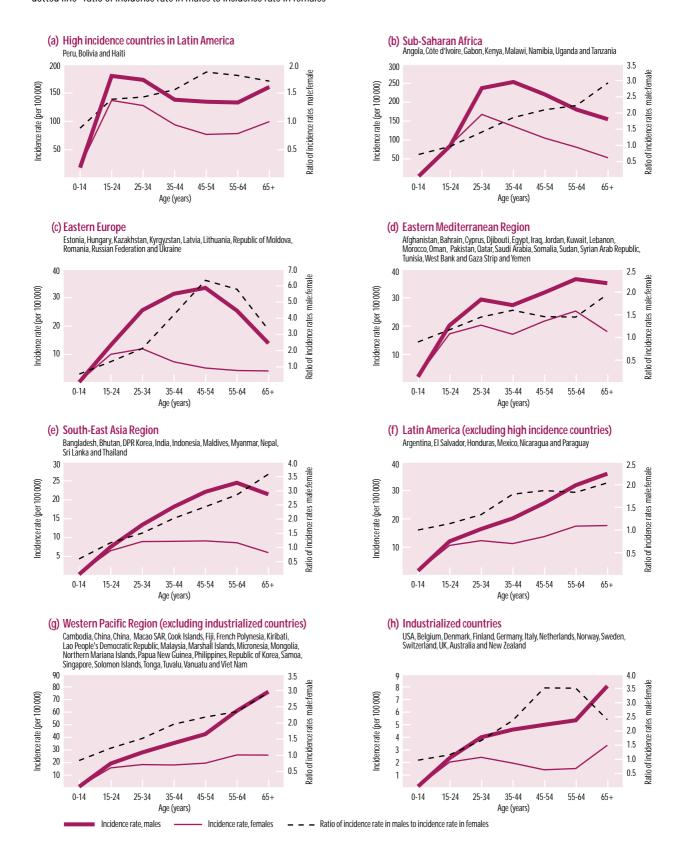


Table 9. Case notifications: 22 high-burden countries, 1998

| | | Number | notified | | | | |
|---|-----------|-----------|----------|----------|---------------------------------|------|--|
| - | All | cases | Smear- | oositive | New ss+ / New pulmonary cases (| | |
| Country (ranked by burden) | non-DOTS | DOTS | non-DOTS | DOTS | non-DOTS | DOTS | |
| l India | 1 100 364 | 29 674 | 271 645 | 12 421 | 26 | 52 | |
| 2 China | 120 814 | 336 535 | 23 172 | 191 290 | 20 | 60 | |
| 3 Indonesia | | 40 497 | | 32 280 | | 83 | |
| 1 Bangladesh | 19 395 | 52 861 | 4 517 | 33 220 | 26 | 68 | |
| 5 Pakistan | 80 104 | 9 495 | 10 829 | 4 145 | 14 | 54 | |
| 6 Nigeria | | 20 249 | | 13 161 | | 71 | |
| 7 Philippines (the) | 141 580 | 18 286 | 61 371 | 10 292 | 49 | 60 | |
| 3 South Africa | 106 294 | 22 121 | 66 047 | 16 246 | 75 | 89 | |
| 9 Ethiopia | | 69 472 | | 18 864 | | 40 | |
| 10 Viet Nam | 2 850 | 84 599 | 1 726 | 53 147 | 74 | 76 | |
| 11 Russian Federation (the) | 119 663 | 1 771 | 41 536 | 683 | 38 | 48 | |
| 12 Democratic Republic of the Congo (the) | | 58 869 | | 33 419 | | 78 | |
| 13 Brazil | 80 062 | 4 132 | 36 588 | 2 221 | 59 | 62 | |
| 14 United Republic of Tanzania (the) | | 51 231 | | 23 726 | | 58 | |
| 15 Kenya | | 48 936 | | 24 029 | | 58 | |
| 16 Thailand | | 15 850 | | 7 962 | | 56 | |
| 17 Myanmar | | 14 756 | | 10 089 | | 82 | |
| 18 Afghanistan | | 3 084 | | 1 833 | | 79 | |
| 19 Uganda | | 29 228 | | 18 222 | | 73 | |
| 20 Peru | | 43 723 | | 27 707 | | 83 | |
| 21 Zimbabwe | | 47 277 | | 14 492 | | 36 | |
| 22 Cambodia | | 16 946 | | 13 865 | | 95 | |
| total, 22 high-burden countries | 1 771 126 | 1 019 592 | 517 431 | 563 314 | 32 | 64 | |
| total, all other countries | 435 825 | 390 502 | 146 747 | 203 921 | 43 | 67 | |
| Global | 2 206 951 | 1 410 094 | 664 178 | 767 235 | 34 | 65 | |

^{*} Expected percentage of new smear-positive to new pulmonary cases is 55-70%.

Case detection rate, 1995-98

The 3 617 045 cases of tuberculosis (all forms) notified in 1998 represent 45% of the 8.08 million estimated cases; the total of 1 431 413 new smear-positives is 40% of 3.57 million estimated cases (Tables 4 and 7). Seventeen percent of all estimated cases, and 21% of estimated smear-positive cases, were detected under DOTS. The detection rate of smear-

Figure 10. Detection rates of smear-positive and all TB cases by WHO Region, 1998



positive cases within DOTS programmes has been rising faster (from 10% to 21%, 1995-98) than the overall smear-positive detection rate (34 to 40%; Table 10).

Case detection rates in 1998 were lowest in the Eastern Mediterranean Region and highest in Europe and the Americas (Figure 10, Annexes 2, 3, 4.3). European, South-East Asian and Eastern Mediterranean countries notified relatively few smear-positive cases compared with all forms of TB (Figure 10).

Treatment results, 1994–97 cohorts

In DOTS areas, the number of new sputum smearpositive cases notified in 1997 was 579 623.Accord-

ing to 1998 reports, 615 803 cases were registered for treatment in 1997, i.e. 6% more than expected (Annex 5 lists notified and registered cases for 1997 by country). This discrepancy is due mostly to inconsistencies in reports from China and the Philippines. Of the registered cases, 93% were evaluated for treatment outcome (Tables 11a and 12, Annex 2). Seventy-two percent of the registered cases were cured and a further 6% completed treatment (without demonstrating cure), a treatment success rate of 78%. Eighty-four percent of evaluated cases were treated successfully under DOTS.

Table 10. Detection of new smear-positive cases: 22 high-burden countries, by control strategy, 1995–98

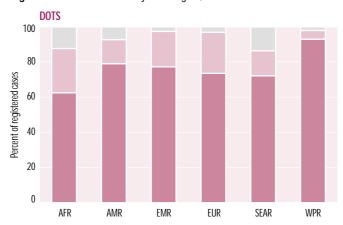
| | | | Percei | nt of the c | ountry's estimated | d new smear-positive | cases dete | cted by | | |
|----|--|-------|-----------|-------------|--------------------|----------------------|------------|---------|-------|--|
| | | | DOTS prog | grammes | | | Whole o | ountry | | |
| | Country (ranked by burden) | 1995 | 1996 | 1997 | 1998 | 1995 | 1996 | 1997 | 1998 | |
| 1 | India | 0.3 | 0.8 | 1 | 1.5 | 34 | 36.8 | 34 | 34.7 | |
| 2 | China | 14.6 | 22 | 23.5 | 30.1 | 21.8 | 27 | 29.9 | 33.7 | |
| 3 | Indonesia | 1.4 | 4.6 | 7.4 | 12.2 | 12.6 | * | * | * | |
| 4 | Bangladesh | 7 | 14.8 | 19.2 | 24.2 | 15.7 | 22.3 | 24.5 | 27.5 | |
| 5 | Pakistan | 1 | 1.6 | _ | 3.4 | 2.3 | * | _ | 12.4 | |
| 6 | Nigeria | 9.1 | 14.7 | 10.2 | 11.7 | * | * | * | * | |
| 7 | Philippines (the) | 0.4 | 0.5 | 3.2 | 10.2 | 100.3 | 89.8 | 84.6 | 71.2 | |
| 8 | South Africa | _ | _ | 6 | 23.3 | 2.1 | 55.3 | 80 | 117.9 | |
| 9 | Ethiopia | 14.7 | 20.7 | 24.3 | 28 | * | 24.7 | * | * | |
| 10 | Viet Nam | 29.9 | 59 | 76.9 | 80.4 | 59.9 | 76.5 | 82.5 | 83.1 | |
| 11 | Russian Federation (the) | _ | 0.4 | 0.9 | 1 | 53.2 | 60.5 | 60 | 60.3 | |
| 12 | Democratic Republic of the Congo (the) | 37.4 | 46 | 46.8 | 60.7 | 39.5 | * | * | * | |
| 13 | Brazil | _ | _ | _ | 4 | 84.8 | 82.8 | 79.9 | 70.4 | |
| 14 | United Republic of Tanzania (the) | 52.3 | 54.9 | 55 | 58 | * | * | * | * | |
| 15 | | 42.1 | 50.1 | 55 | 68.1 | * | * | * | * | |
| 16 | , | _ | 0.3 | 5.1 | 21.3 | 55.6 | 46.3 | 35.7 | * | |
| 17 | Myanmar | _ | 24.9 | 25.1 | 27.7 | 25 | 27.5 | 27 | * | |
| 18 | | _ | _ | 1.9 | 5.4 | _ | _ | * | * | |
| 19 | | _ | _ | 65 | 66.7 | 54.3 | 58.6 | * | * | |
| 20 | | 114.9 | 94.3 | 95 | 94.1 | * | * | * | * | |
| 21 | Zimbabwe | _ | _ | _ | 59.1 | 38.7 | 50.5 | 60 | * | |
| 22 | Cambodia | 46 | 39 | 50.1 | 53.6 | * | 48.8 | * | * | |
| | all high-burden countries | 8.8 | 12.7 | 14.9 | 19.7 | 30.7 | 34.2 | 34.8 | 37.7 | |
| | Global | 10.6 | 14.4 | 16.5 | 21.5 | 34.4 | 37.6 | 37.8 | 40 | |

[—] not available; * no additional data beyond DOTS report.

The discrepancy between cases notified in 1997 (748 068), and reported in 1998 as having been registered for treatment (533 267), was bigger in non-DOTS areas. Many fewer cases were registered than notified in China, the Philippines and Thailand. Outside DOTS areas a smaller proportion of registered cases (47%) was evaluated for treatment outcome. Twenty-two percent of registered cases were cured and 16% completed treatment, using either short-course chemotherapy or another regimen, a treatment success rate of 38% of registered cases (Tables 11b and 12, Annex 2). Seventynine percent of evaluated cases were reported to be successfully treated outside DOTS programmes.

Among the WHO regions, the documented treatment success rates under DOTS

Figure 11. Treatment success by WHO Region, 1997



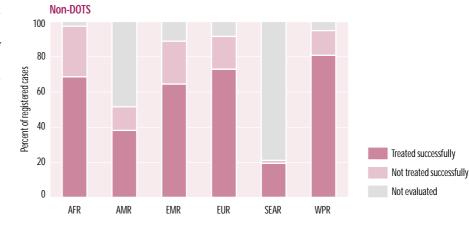


Table 11a. Treatment outcomes for smear-positive cases: 22 high-burden countries: DOTS strategy, 1997 cohort*

| | | | | | | Treatment outcomes (%)* | | | | | | T | % est* cases successfully |
|----------|--|----------------------|------------------|----------------|-------|-------------------------|----------|--------|------------------------|--------------------|---------------|------------------------------|------------------------------|
| | Country (ranked by burden) | Notified | Registered* | Regst'd (%) | Cured | Completed treatment* | Died | Failed | Defaulted | Trans- ferred | Not eval'd | Treatment success* (%) | treated under DOTS |
| 1 | India | 7 708 | 7 689 | 99.8 | 80.4 | 1.4 | 3.5 | 3.4 | 8.7 | 2.5 | 0.1 | 81.8@ | 0.8 |
| 2 | China | 147 905 | 166 279 | 112.4 | 96.3 | 0 | 1.3 | 1 | 0.6 | 0.3 | 0.5 | 96.3@ | 25.4 |
| 3 | Indonesia | 19 492 | 21 355 | 109.6 | 46.7 | 7.8 | 1.1 | 1 | 1.7 | 0.5 | 41.2 | 54.5 | 4.4 |
| 4 | Bangladesh | 25 871 | 26 374 | 101.9 | 72.9 | 5.6 | 4.8 | 1.4 | 10.1 | 2.6 | 2.7 | 78.4 | 15.3 |
| 5 | Pakistan | | 2 805 | | 52.4 | 15 | 3.4 | 1.2 | 25.7 | 2.2 | 0 | 67.4 | 1.6 |
| 6 | Nigeria | 11 235 | 11 253 | 100.2 | 60.4 | 12.6 | 6.9 | 2.7 | 14.9 | 2.4 | 0 | 73 | 7.4 |
| 7 | Philippines (the) | 3 190 | 4 085 | 128.1 | 79.7 | 3.2 | 2.8 | 2.9 | 6.7 | 4 | 0.8 | 82.8@ | 3.4 |
| 8 | South Africa | 4 146 | 4 146 | 100 | 68.2 | 4.9 | 4.9 | 3 | 10.9 | 6.9 | 1.1 | 73.2 | 4.4 |
| 9 | Ethiopia | 15 957 | 11 592 | 72.6 | 61.2 | 10.4 | 6.6 | 1 | 11.7 | 4.7 | 4.4 | 71.7 | 12.6 |
| 10 | Viet Nam | 50 016 | 50 016 | 100 | 81.9 | 3 | 2.7 | 1.1 | 2.1 | 2.1 | 7.1 | 84.9@ | 65.3 |
| 11 | Russian Federation (the) | 660 | 661 | 100.2 | 66.4 | 1.1 | 9.7 | 7.9 | 8.2 | 2.4 | 4.4 | 67.5 | 0.6 |
| 12 13 | Democratic Republic of the Col Brazil | ngo 25 183 | 25 183 | 100 | 52.2 | 11.5 | 4.8 | 1 | 8 | 7.9 | 14.5 | 63.7 | 29.8 0 |
| | | ha\ 22.010 | 22.04.4 | 100.2 | 71.2 | 5.5 | 9 | 0.6 | 6.2 | 4.7 | 2.8 | 74.7 | - |
| 14 15 | | he) 22 010 19 040 | 22 064 19 040 | 100.2 | 52.9 | 5.5 12.2 | 9 4.8 | 0.6 | 0.2 7.4 | 4. <i>1</i> 6.7 | 15.5 | 76.7 65.1 | 42.3 35.8 |
| 16 | | 19 040 | 19 040 | 56.5 | 59.8 | 2.4 | 4.0 | 1.7 | 7. 4 8.2 | 4.3 | 18.7 | 62.1 | 33.0 1.8 |
| | | 9 014 | 9 232 | 102.4 | 72.9 | 2.4 8.9 | 4.9 | 1.7 | 9.8 | 4.3 2.6 | 0 | 81.8@ | 21 |
| 17 18 | J | 618 | 2 001 | 323.8 | 39.3 | 5.4 | 1.6 | 1.2 | 9.0 8.2 | 0.9 | 43.4 | 44.7 | 2.7 |
| 19 | • | 17 268 | 17 500 | 101.3 | 19.7 | 20 | 6.1 | 0.4 | 14.2 | 4.9 | 34.7 | 39.7 | 26.1 |
| 20 | 3 | 27 498 | 24 428 | 88.8 | 88 | 1.8 | 2.3 | 1.3 | 3.6 | 0.6 | 2.6 | 39.7 89.8@ | 75.8 |
| 2U 21 | Zimbabwe | 21 490 | Z4 4Z0 | 00.0 | 00 | 1.0 | 2.3 | 1.3 | 3.0 | 0.0 | 2.0 | 07.0@ | 0 |
| 21 | Cambodia | 12 686 | 12 278 | 96.8 | 86.2 | 4.5 | 2.2 | 0.4 | 2.5 | 0.6 | 3.7 | 90.7@ | 44 |
| | Global (DOTS) | 579 623 | 615 803 | 106.2 | 72 | 6.4 | 3.8 | 1.4 | 6.4 | 3 | 7.1 | 78.3 | 13.7 |

^{*} Cohort: cases diagnosed during 1997 and treated/followed-up through 1998. Treatment outcomes divided by number registered (or by number evaluated, if greater). Completed treatment: clinically cured but without lab-confirmation. Treatment success: cured plus completed. @=treatment success ≥80%. Est: estimated (as opposed to notified or registered).

Table 11b. Treatment outcomes for smear-positive cases: 22 high-burden countries: non-DOTS strategy, 1997 cohort*

| | | | | Treatment outcomes (%)* | | | | | | T | |
|--------------------------------------|----------|------------|----------------|-------------------------|----------------------|------|--------|-----------|------------------|---------------|------------------------------|
| Country (ranked by burden) | Notified | Registered | Regst'd (%) | Cured | Completed treatment* | Died | Failed | Defaulted | Trans- ferred | Not eval'd | Treatment success* (%) |
| 1 India | 265 811 | 285 794 | 107.5 | 0 | 16.6 | 0 | 0 | 0 | 0 | 83.4 | 16.6 |
| 2 China | 40 625 | 23 010 | 56.6 | 84.3 | 0 | 1.6 | 7.1 | 4.2 | 1.7 | 1 | 84.3@ |
| 3 Indonesia | | | | | | | | | | | |
| 4 Bangladesh | 7 246 | 7 410 | 102.3 | 42.8 | 11.4 | 0.5 | 0.7 | 37.1 | 7.4 | 0.1 | 54.3 |
| 5 Pakistan | | | | | | | | | | | |
| 6 Nigeria | | | | | | | | | | | |
| 7 Philippines (the) | 80 163 | 23 396 | 29.2 | 69.9 | 6.9 | 1.1 | 1.1 | 7.8 | 3.6 | 9.7 | 76.8 |
| 8 South Africa | 50 854 | 50 854 | 100 | 55.9 | 11.6 | 6.7 | 2.3 | 17.3 | 2.5 | 3.6 | 67.4 |
| 9 Ethiopia | | | | | | | | | | | |
| 10 Viet Nam | 3 631 | 3 631 | 100 | 78.3 | 8.1 | 3.1 | 2.5 | 5.1 | 1.6 | 1.3 | 86.4@ |
| 11 Russian Federation (the) | 41 434 | | | | | | | | | | |
| 12 Democratic Republic of the Congo | | 814 | | 46.6 | 0 | 23.2 | 10.8 | 2.2 | 13.5 | 3.7 | 69.8 |
| 13 Brazil | 43 490 | 43 490 | 100 | 0 | 26.9 | 2 | 0.3 | 5.2 | 1.4 | 64.2 | 26.9 |
| 14 United Republic of Tanzania (the) | | | | | | | | | | | |
| 15 Kenya | | | | | | | | | | | |
| 16 Thailand | 11 341 | 2 638 | 23.3 | 52.9 | 3.7 | 6 | 1.4 | 8.8 | 3.6 | 23.5 | 56.6 |
| 17 Myanmar | 681 | | | | | | | | | | |
| 18 Afghanistan | | | | | | | | | | | |
| 19 Uganda | | | | | | | | | | | |
| 20 Peru | | | | | | | | | | | |
| 21 Zimbabwe | 14 512 | 12 410 | 85.5 | 51.3 | 17.5 | 10.2 | 0.2 | 8.2 | 12.7 | 0 | 68.8 |
| 22 Cambodia | | | | | | | | | | | |
| Global (non-DOTS) | 748 068 | 533 267 | 71.3 | 21.9 | 15.5 | 1.8 | 1 | 5.3 | 1.6 | 52.8 | 37.5 |

^{*} Cohort: cases diagnosed during 1997 and treated/followed-up through 1998. Treatment outcomes divided by number registered (or by number evaluated, if greater). Completed $treatment: clinically cured but without lab-confirmation. Treatment success: cured plus completed. @=treatment success \ge 80\%. \\$

Table 12. Treatment outcomes for smear-positive cases, by WHO Region and strategy, 1997 cohort*

| | | | | | Treatment outcomes (%)* | | | | | | | | % est* cases |
|---------|------------------|--------------------|--------------------|----------------|-------------------------|----------------------|------------|------------|--------------|------------------|---------------|------------------------------|---------------------------------------|
| WHO reç | jion/strategy | Notified | Registered | Regst'd (%) | Cured | Completed treatment* | Died | Failed | Defaulted | Trans- ferred | Not eval'd | Treatment success* (%) | successfully treated under DOTS |
| AFR | DOTS non-DOTS | 197 519 77 869 | 185 863 78 270 | 94.1 100.5 | 51 56.3 | 11.4 12.2 | 6.5 7.1 | 1.4 1.8 | 11.8 15.6 | 5.7 4.5 | 12.3 2.7 | 62.4 68.4 | 17.5 |
| AMR | DOTS non-DOTS | 55 090 86 458 | 64 120 68 504 | 116.4 79.2 | 72.7 12.5 | 6.2 25.5 | 4.2 2.8 | 1.2 0.5 | 6 7.7 | 2.3 2.6 | 7.3 48.4 | 78.9 38 | 27.7 |
| EMR | DOTS non-DOTS | 25 269 27 811 | 36 251 23 456 | 143.5 84.3 | 64.6 51.2 | 12.5 13.1 | 2.9 1.8 | 1.8 3.8 | 10.6 14.6 | 4.9 4.3 | 2.6 11.2 | 77.1 64.3 | 10.2 |
| EUR | DOTS non-DOTS | 5 284 108 303 | 15 276 7 329 | 289.1 6.8 | 56.3 62.5 | 17 10.1 | 5 3.9 | 6.7 8.2 | 10 5.3 | 1.8 1.5 | 3.1 8.5 | 73.4 72.7 | 5.7 |
| SEAR | DOTS non-DOTS | 70 145 298 079 | 71 475 304 995 | 101.9 102.3 | 65.8 2.9 | 6.2 16.4 | 3.4 0.1 | 1.4 0.1 | 7.3 1.3 | 2.2 0.3 | 13.6 78.8 | 72 19.3 | 3.9 |
| WPR | DOTS non-DOTS | 226 316 149 548 | 242 818 50 713 | 107.3 33.9 | 91.7 76.6 | 1.1 4 | 1.7 1.6 | 1.1 4 | 1.2 6 | 1.1 2.6 | 2.1 5.2 | 92.8@ 80.6@ | 25.6 |
| Global | DOTS non-DOTS | 579 623 748 068 | 615 803 533 267 | 106.2 71.3 | 72 21.9 | 6.4 15.5 | 3.8 1.8 | 1.4 1 | 5.7 4.7 | 3 1.6 | 7.1 52.8 | 78.3 37.5 | 13.7 |

^{*} Cohort: cases diagnosed during 1997 and treated/followed-up through 1998. Treatment outcomes divided by number registered (or by number evaluated, if greater). Completed treatment: clinically cured but without lab-confirmation. Treatment success: cured plus completed. @= treatment success \ge 80%. Est: estimated (as opposed to notified or registered).

Table 13. Treatment success for smear-positive cases: 22 high-burden countries, 1994–97 cohorts

| | | DOTS programmes | | | | | | | Whole country | | | | | |
|----|--|-----------------|------|------|------|------|------|------|---------------|--|--|--|--|--|
| | Country (ranked by burden) | 1994 | 1995 | 1996 | 1997 | 1994 | 1995 | 1996 | 1997 | | | | | |
| l | India | 83.2 | 78.8 | 79.0 | 81.8 | * | 24.7 | 20.0 | 16.6 | | | | | |
| 2 | China | 94.0 | 95.8 | 96.2 | 96.3 | 86.0 | 85.1 | 86.9 | 84.3 | | | | | |
| 3 | Indonesia | 94.3 | 90.7 | 81.4 | 54.5 | * | * | * | * | | | | | |
| ļ | Bangladesh | 73.0 | 71.4 | 72.4 | 78.4 | * | * | 45.6 | 54.3 | | | | | |
| 5 | Pakistan | 73.8 | 70.4 | _ | 67.4 | 64.7 | * | _ | * | | | | | |
|) | Nigeria | 65.1 | 49.1 | 31.5 | 73.0 | * | * | * | * | | | | | |
| 7 | Philippines (the) | 80.4 | _ | 82.4 | 82.8 | 87.5 | 60.0 | 34.2 | 76.8 | | | | | |
| 3 | South Africa | _ | _ | 69.4 | 73.2 | 78.2 | 57.9 | 60.5 | 67.4 | | | | | |
|) | Ethiopia | 74.0 | 60.6 | 73.4 | 71.7 | * | * | 63.4 | * | | | | | |
| 0 | Viet Nam | 90.5 | 91.3 | 90.2 | 84.9 | * | 85.3 | 86.4 | 86.4 | | | | | |
| 1 | Russian Federation (the) | _ | 64.8 | 62.3 | 67.5 | _ | * | 56.7 | * | | | | | |
| 2 | Democratic Republic of the Congo (the) | 71.5 | 79.8 | 48.0 | 63.7 | 78.8 | 68.9 | 66.9 | 69.8 | | | | | |
| 3 | Brazil | _ | _ | _ | _ | 69.6 | 16.9 | 20.3 | 26.9 | | | | | |
| 4 | United Republic of Tanzania (the) | 79.8 | 73.5 | 76.2 | 76.7 | * | * | * | * | | | | | |
| 5 | Kenya | 73.3 | 74.7 | 76.7 | 65.1 | * | * | * | * | | | | | |
| | Thailand | _ | _ | 77.8 | 62.1 | 58.2 | 63.6 | * | 56.6 | | | | | |
| 17 | Myanmar | _ | 66.0 | 79.1 | 81.8 | 77.4 | 77.5 | 76.2 | * | | | | | |
| 8 | Afghanistan | _ | _ | _ | 44.7 | _ | _ | _ | * | | | | | |
| | Uganda | _ | _ | 33.0 | 39.7 | _ | 43.7 | * | * | | | | | |
| | Peru | 81.4 | 83.4 | 88.6 | 89.8 | * | * | * | * | | | | | |
| 21 | Zimbabwe | _ | _ | _ | _ | 51.7 | 53.3 | 32.1 | 68.8 | | | | | |
| 22 | Cambodia | 84.3 | 90.8 | 93.8 | 90.7 | * | * | * | * | | | | | |
| | all high burden countries | 87.0 | 85.5 | 79.5 | 82.2 | 83.2 | 54.1 | 51.3 | 57.1 | | | | | |
| | Global | 76.9 | 78.6 | 76.9 | 78.3 | 74.7 | 57.0 | 53.6 | 59.4 | | | | | |

Table 14. Re-treatment outcomes in DOTS programmes: 22 high-burden countries, 1997 cohort*

| | | | | Treatment outcomes (%)* | | | | | | | |
|-------------------------------------|---------------|-----------|----------------|-------------------------|----------------------|------|--------|-----------|------------------|---------------|------------------------|
| Country (ranked by burden) | Registered | Evaluated | Regst'd (%) | Cured | Completed treatment* | Died | Failed | Defaulted | Trans- ferred | Not eval'd | Treatment success* (%) |
| 1 India | 2 306 | 2 209 | 95.8 | 62.2 | 3 | 7.4 | 5.6 | 14.7 | 2.9 | 4.2 | 65.2 |
| 2 China | | | | | | | | | | | |
| 3 Indonesia | | | | | | | | | | | |
| 4 Bangladesh | 1 131 | 844 | 74.6 | 53.5 | 4.2 | 3.1 | 2.2 | 8.1 | 3.5 | 25.4 | 57.6 |
| 5 Pakistan | 537 | 537 | 100 | 37.4 | 19.2 | 8.2 | 5.4 | 25.3 | 4.5 | 0 | 56.6 |
| 6 Nigeria | | | | | | | | | | | |
| 7 Philippines (the) | 276 | 111 | 40.2 | 23.6 | 2.5 | 1.8 | 6.5 | 1.8 | 4 | 59.8 | 26.1 |
| 8 South Africa | 533 | 513 | 96.2 | 63.4 | 4.7 | 5.6 | 3.2 | 11.4 | 7.9 | 3.8 | 68.1 |
| 9 Ethiopia | 784 | 784 | 100 | 52.2 | 17.1 | 8.3 | 4 | 13.3 | 5.2 | 0 | 69.3 |
| 10 Viet Nam | 4 866 | 4 500 | 92.5 | 74.4 | 5.2 | 3.8 | 4.1 | 2.4 | 2.6 | 7.5 | 79.6 |
| 11 Russian Federation (the) | | | | | | | | | | | |
| 12 Democratic Republic of the Cong | go (the) 2771 | 1 810 | 65.3 | 40.4 | 5.7 | 4.9 | 1.5 | 4.8 | 8 | 34.7 | 46.1 |
| 13 Brazil | | | | | | | | | | | |
| 14 United Republic of Tanzania (the | e) | 2 095 | | 60.8 | 14.1 | 13.8 | 1.1 | 6.4 | 3.8 | 0 | 74.9 |
| 15 Kenya | 1 386 | 991 | 71.5 | 47.5 | 7.1 | 6.1 | 0.6 | 5.8 | 4.3 | 28.5 | 54.7 |
| 16 Thailand | 238 | 194 | 81.5 | 52.9 | 2.1 | 7.6 | 4.6 | 10.5 | 3.8 | 18.5 | 55 |
| 17 Myanmar | 1 745 | 1 745 | 100 | 60.7 | 13.5 | 6.2 | 3.7 | 11.3 | 4.5 | 0 | 74.2 |
| 18 Afghanistan | | | | | | | | | | | |
| 19 Uganda | 1 136 | 1 136 | 100 | 31.6 | 26.3 | 10.4 | 1.2 | 23.6 | 6.9 | 0 | 57.9 |
| 20 Peru | | | | | | | | | | | |
| 21 Zimbabwe | | | | | | | | | | | |
| 22 Cambodia | 650 | 639 | 98.3 | 85.1 | 5.4 | 3.8 | 1.2 | 2.5 | 0.3 | 1.7 | 90.5@ |
| Global total | 36 380 | 34 353 | | 53 | 11.4 | 6.1 | 3.4 | 9.6 | 4 | 12.5 | 64.4 |

^{*} Cohort: cases starting retreatment during 1997 and followed-up during 1998. Treatment outcomes divided by number registered (or by number evaluated, if greater). Completed treatment: clinically cured but without lab-confirmation. Treatment success: cured plus completed. @=treatment success ≥80%.

varied from 62% in the African Region to over 90% in the Western Pacific Region (Figure 11, Table 12). Africa's low success rate is due in part to a low cure rate (51%), and in part to high proportions of cases that interrupted treatment (6%), that died (7%), that were lost during transfer (6%), or were not evaluated (12%). The success rate in Africa was higher for the 1997 cohort than for the 1996 cohort (58%) as a result of both an improved cure rate, and decreased proportions that interrupted treatment or were not evaluated. A comparison of treatment results for three consecutive cohorts (1995–97) shows that the overall success rates have remained approximately stable at 77–79% under DOTS, and 54–60% world-wide (Table 13). 13

In DOTS areas, 36 380 cases registered for retreatment in 1997, half as many as in 1996. This fall is due to the fact that China did not provide retreatment reports for 1997. Fifty-three percent were cured and 11% completed treatment, a retreatment success rate of 64% (Table 14,Annex 2).

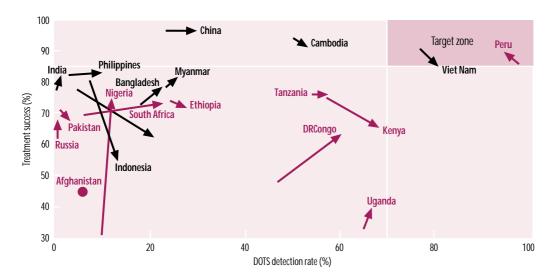
Progress in TB control in 22 high-burden countries

Figure 12, and Tables 10–12, give an overview of progress towards meeting WHO targets for 20 of the 22 high-burden countries (excluding Brazil and Zimbabwe, for which no data on treatment success are yet available). The essential elements of progress in the high-burden countries are as follows. These notes, which include some recent information from local WHO staff, should be read in conjunction with another recent report on the status of tuberculosis control in these countries. ¹⁴

¹³ The average treatment success rate for whole countries was relatively high in 1994, mainly because India registered 144 058 cases in non-DOTS areas without providing treatment outcomes; these data were excluded.

World Health Organization. Status of Tuberculosis in the 22 High-Burden Countries, 1999. WHO/CDS/TB/99.271.

Figure 12. DOTS progress in high-burden countries, 1997—98. Treatment success refers to cohorts of patients registered in 1996 or 1997, and evaluated, respectively, by the end of 1997 or 1998. DOTS detection rate is the fraction of estimated cases notified under DOTS in 1997–98. Arrows mark progress in countries that supplied notification and cohort data for at least two years. For Pakistan, the start of the arrow is for cases notified in 1996 rather than 1997. Afghanistan (circle) has provided notification data for 1998 and treatment outcome data for patients registered in 1997 only. Countries should enter the graph at top left, and proceed rightwards to the target zone. Countries from AFR, AMR and EMR are shown in pink, those from SEAR and WPR are shown in black.



1. India

Between 1993 and 1997, India's DOTS programme reported high treatment success near or above 80%, but by 1998 the proportion of smear-positive cases detected under DOTS was only 1.5%. India's DOTS programme underwent large-scale expansion in the last quarter of 1998 and now covers approximately 20% of the country (200 million people). More than 140 000 patients were treated in 1999, including over 50 000 new smear-positive patients (6% of estimated in the country and approximately 54% of those in DOTS areas). The cure rate in 1998 remained above 80%, and would have been higher but for a default rate of 9%. Coverage is expected to reach 250 million by the end of 2000 and more than 450 million by the end of 2002.

2. China

The existing DOTS programme includes both the Infectious Endemic Disease Control (IEDC) and Ministry of Health Projects, covering 50% and 14% of the population, respectively. Although these population coverage rates did not increase in 1998, the total number of cases reported under DOTS increased by one third (from 253 904 cases in 1997 to 336 535 cases in 1998). The cure rate has remained over 90%, and we estimate that more than 1 in 4 infectious TB cases is now successfully treated under DOTS. It has recently been estimated that the Chinese DOTS programme is preventing at least 30,000 (26 000–59 000). TB deaths each year. Outside DOTS areas, many fewer cases were registered for treatment than notified, and the treatment success was reported to be lower (84%). The two key issues now facing China are the need for new funds to sustain the DOTS programme when World Bank-supported IEDC Project finishes in 2001, and the need for additional funds to expand DOTS to the entire country.

¹⁵ Dye C, Zhao F, Scheele S, Williams B. Evaluating the impact of tuberculosis control: number of deaths prevented by short-course chemotherapy in China. *Int J Epidemiol* 2000; 29: in press.

3. Indonesia

Reported DOTS population coverage expanded dramatically from 28% in 1997 to 80% by the end of 1998, but the detected fraction of incident cases increased from only 7.4% to 12.2%. The treatment success among cases that were evaluated was 93% in the 1997 cohort, but failure to evaluate 41% of registered cases pushed the overall treatment success down to 55%. Failure to evaluate has been a growing problem since 1995, though steps to rectify it were taken in 1999. In 1997, the reported DOTS population coverage was four times the case detection rate under DOTS; coverage in 1998 was seven times the detection rate. Thus case finding is not sufficiently intensive within areas purportedly covered by DOTS. As for 1997 notifications, a relatively high fraction (83%) of new pulmonary cases was smear-positive, outside the expected range of 55-70%. This raises questions about the fate of smear-negative cases. No report was received for non-DOTS areas in 1998.

4. Bangladesh

Bangladesh reported 90% DOTS coverage in 1998, and 95% in 1999 (40% in collaboration with NGOs). An estimated 24% of smear-positive cases were detected under DOTS in 1998, more than a threefold increase over the 1995 detection rate. The big difference between population coverage and detection rate persists because many patients continue to seek treatment from non-DOTS programmes in specialized TB institutions (clinics and hospitals), and perhaps the private sector. The treatment success rate has been consistently greater than 70% since 1994, and rose to 78% in 1997 cohort. However, this is still lower than the WHO target of 85%, mainly because the default rate in 1997 (10%) was as high as in 1996. An estimated 15% of all smear-positive cases were successfully treated under DOTS in 1997. Treatment outside the DOTS programme is characterised by a very high default rate (37%), which explains the low treatment success rate of 54%.

5. Pakistan

DOTS population coverage was 8% in 1998, the same as in 1996 (no report was provided for 1997). The case detection rate under DOTS was therefore also low (3.4%). Just 2802 smear-positive patients were registered in the 1997 cohort. Treatment success was 68%, and only 53% were "cured" (demonstrated smear conversion at 5 months). More than 1 in 4 patients defaulted from treatment, the highest fraction in any of the high-burden countries. Only 2% of smear-positive cases were successfully treated under DOTS in 1997. These data indicate, in short, that Pakistan has a poor National TB Control Programme.

6. Nigeria

Both DOTS population coverage (45% in 1998) and the case detection rate (12% in 1998) have remained stable and low since 1996. Changes in the treatment success between 1996 and 1997 show some positive and some negative signs. The main indication of progress is that 100% of registered cases were reportedly evaluated in 1997, as compared with 44% the previous year. However, the default rate doubled from 8% to 15% between 1996 and 1997. The net result was a treatment success of 73%, well below the WHO target. No data were provided for non-DOTS areas of the country in 1997.

7. The Philippines

The population covered by DOTS was still low (17%) in 1998, but the programme has expanded rapidly since then. Preliminary data indicate that coverage reached 40% by the end of 1999. The case detection rate under DOTS was 10% in 1998, three times that in 1997 (3%). The number of new, pulmonary smear-positive cases reported for the country as a whole was more than 70% of the estimated total. Sixty percent of new pulmonary cases were smear-positive in 1998, within the expected range of 55-70%. Cases registered for DOTS treatment in 1997 outnumbered notifications (recorded the previous year), but the reverse was true in non-DOTS areas. Defects therefore remain in the system of recording

and reporting. Treatment success exceeded 80% in 1996 and 1997 (83%) cohorts, with a high rate of smear-conversion (79% in 1996 and 77% in 1997). The re-treatment success rate was very low in 1997 cohort (27%) because a high fraction of registered patients was not evaluated (60%). The main obstacle to better cure appears to be the default rate, which was 7% among new cases in the 1997 cohort.

8. South Africa

The total number of cases notified in 1998 exceeded the estimated total; it is not clear whether the estimate is wrong, or whether there are errors in defining and reporting cases. The same problem reappears in the indicators used to measure DOTS progress, which has been rapid since 1996: the estimated case detection rate under DOTS (23%) in 1998 was a little bigger than DOTS population coverage (22%). The fraction of new pulmonary cases reported to be smear-positive was 89%, higher than expected, and much higher than reported for 1997. Treatment success rates in DOTS (73%) and non-DOTS areas (67%) were both low due to high default rates. Despite high rates of HIV infection, estimated to be 45% among TB cases in 1997, the DOTS cohort death rate was under 5%.

9. Ethiopia

About half the country was covered by DOTS at the end of 1998, the same as in 1997. However, the case detection under DOTS has continued to increase, doubling from 15% in 1995 to 28% in 1998. As cautioned in last year's report, the rise in case detection might be due to improved coverage, but it might also be driven, at least in part, by the HIV epidemic. Treatment success did not change between 1996 and 1997 (72%), because the default rate remained high (12%). No report was received for non-DOTS areas in 1998. It is therefore unclear from these data how much progress in TB control Ethiopia made between 1997 and 1998.

10. Viet Nam

Having reached WHO targets in 1997, Viet Nam has maintained high rates of DOTS coverage (96%), case detection (80%) and treatment success (85%). An estimated 65% of all smearpositive cases were successfully treated under DOTS in 1997, second only to Peru among the 22 highest burden countries. Treatment success was also high in non-DOTS areas (86%). The fraction of cases reported to be smear-positive (76%) under DOTS was somewhat higher than would be expected among the entire population of new pulmonary cases. Viet Nam must now look for epidemiological impact using a wider range of indicators, assessing, for example, whether incidence and prevalence are now declining, and quantifying the number of deaths averted. A prevalence survey will be carried out this year.

11. Russian Federation

DOTS coverage approximately doubled between 1997 and 1998, rising from 2% to 5%. However, only 1.5% of all notified cases, and 1.0% of all cases, were reported under DOTS. Treatment success was again low in the 1997 cohort (68%), as in the 1996 cohort, because of high death (10%), failure (8%) and default rates (8%). The same was true for patients on retreatment regimens. No treatment results were provided for non-DOTS areas of the country. Though progress has been very slow during the 1990's, Russia is now planning, in collaboration with WHO, the World Bank and other agencies, a major expansion of DOTS coverage. Control efforts in this country will need to confront the considerable problem of multi-drug resistant TB (MDR-TB).

12. The Democratic Republic of the Congo

As in South Africa, DOTS coverage (60%) was reported to be about the same as the DOTS detection rate (61%). There are several possible explanations: the incidence rate has been

underestimated, the notification rate is exaggerated (e.g. because cases from non-DOTS areas are included), or DOTS areas of the country suffer relatively high incidence rates. With present data, we cannot say which applies. Treatment success was low (64%) because 15% of registered cases were not evaluated, 8% defaulted, and because the fate of the 8% of patients that "transferred out" was unknown. No data were provided for non-DOTS areas of the country.

13. Brazil

In 1998, the Brazilian National Health Board declared tuberculosis a priority health problem. In the same year, DOTS was implemented in the central west region of the country. Although the programme in this area is apparently very effective (treatment outcome data are not yet available), it detected only 4% of estimated smear-positive cases in 1998. By contrast, the case detection rate for the whole country was 70%. Non-DOTS areas reported a treatment success rate of 27% in 1997, because 64% were not evaluated. The success rate among those evaluated was 75%. The critical issue for Brazil is to successfully expand the DOTS programme to other parts of the country. Tuberculosis control programmes fall under the aegis of state governments that are independent of the federal government (which supports DOTS). The use of DOTS has been encouraged under a plan wherein states are reimbursed for smear examinations and are paid for each tuberculosis patient cured (with final negative smear conversion). In addition to the current disease surveillance system, an information system to collect and report data on the status of the implementation of DOTS in states throughout the country is urgently needed.

14. The United Republic of Tanzania

DOTS coverage remains officially 100%, but the detection rate under DOTS has stayed in the range 50-60% since 1995. Assuming that the estimated TB incidence rate is correct, the National TB Control Programme is missing 15 000–20 000 new smear-positive cases each year. Treatment success has also remained between 75% and 80%, with smear-conversion demonstrated for most patients that complete treatment. Treatment success has been low partly due to the 8-9% death rate in 1994–97 cohorts (14% under retreatment in 1997), which in turn could be explained by the high rate of HIV infection among TB patients (estimated at 37% in 1997). Forty-two percent of all (estimated) smear-positive cases were successfully treated under DOTS in 1997, about the same as in 1996.

15. Kenya

All cases are reported under DOTS, and the case detection rate increased to 68% of estimated cases in 1998. As we have previously remarked (see paragraph 9 on Ethiopia), the apparent improvement in case detection could be explained by the rise in incidence due to HIV. Treatment success fell sharply between 1996 and 1997 (from 77% down to 65%), because 16% of registered cases were not evaluated, 7% defaulted and 7% transferred out. The death rate among cases evaluated was under 5%, but we do not know how many unevaluated cases died. Kenya appears to have understated its treatment outcomes for 1997: among the 16% of cases for which there were no treatment results, 10% (1913) were nomads, and 85% of these were successfully treated. Adding these results to those in Table 11a, and excluding 1032 patients receiving a standard rather than a short-course regimen, gives an overall success rate of 78% instead of 65%.

16. Thailand

Thailand began to implement DOTS in October 1996. Coverage rose to 32% at the end of 1998 (and 40% in 1999), with a detection rate of 21%. By the middle of 1999, all provinces in the country had demonstration districts and 40% of all districts had implemented the new control policy. The rapid expansion led to difficulties in case monitoring in some areas. Some reports received in the central unit have been incomplete, and the number of

cases registered in 1997 was significantly lower than the number notified for that year. Treatment outcomes for 19% of cases registered in 1997 were unknown. While this is clearly the main reason for the low overall success rate of 62%, another contributing factor was the relatively high default rate of 8%. Failure to evaluate cases under treatment, and a high default rate, also explain the low non-DOTS treatment success of 57%. A strong focus on quality control, and especially on the accuracy of reporting, dominates the current activities of the National TB Control Programme.

17. Myanmar

DOTS coverage remained at about 60% between 1996 and 1998, but is now reported to be somewhat higher at 64%. Case detection under DOTS has been similarly steady at 25–28%. Treatment success jumped from 66% to 79% between 1995 and 1996, and reached 82% in 1997. The main loss was through defaulting, both among new and retreatment cases (10%). No report was received for non-DOTS areas. Myanmar has a good-quality DOTS programme, which is in need of investment for further expansion.

18. Afghanistan

Despite civil conflict, Afghanistan retained its DOTS status in 1998 by reporting from the 11% of the population covered. About 5% of the estimated smear-positive cases were notified. Cohort data show, first, a major discrepancy between the number of cases notified for 1997 (618) and the number registered for treatment (2001). The treatment success was 45%, mainly because 43% were not evaluated, and 8% defaulted. In sum, Afghanistan made little progress in TB control between 1997 and 1998.

19. Uganda

The NTP achieved full country coverage with the DOTS strategy in 1996. Routine support and supervision showed that TB control services were available, but not easily accessible, to the mostly rural population. Uganda reported a case detection rate of 67% in 1998, but treatment success (40%) was the lowest of all 22 the high-burden countries. The two main problems were failure to evaluate newly-registered cases (35% of outcomes unknown), and defaulting (14%). The default rate was even higher among cases being retreated (24%). The high death rate of retreatment cases (10%) might be a consequence of interrupted treatment, or linked to HIV co-infection. The NTP began to address these problems in 1998-99 by testing a community DOTS programme based on the observation of treatment by volunteers in rural villages. At the end of 1999, the NTP had completed follow-up of the cohort from the first demonstration district, with strikingly improved results. All patients had 8 months supervision by community volunteers and all were evaluated at the end of treatment.Treatment success was 87%, the death rate was 12%, and the transfer rate was just 1%. Treatment interruption and failures were nil. Preliminary data from other two demonstration districts are equally promising. The new approach to DOTS implementation, based on community involvement, has been adopted by the Ministry of Health and will be expanded all over Uganda during the next 2-3 years.

20. Peru

Peru had reached the WHO targets by 1995, and has continued to maintain its performance. In terms of nationwide case finding and cure, Peru is still the most successful DOTS country among the top 22. The estimated case detection rate was 94% in 1998. Of all cases notified in 1997, 89% were registered for treatment. Among registered cases, 90% were treated successfully. Given these very strong results, we expect to see TB incidence in decline. The number of notified cases peaked at 52 552 in 1992, and fell to 41 739 in 1996, but has increased again over the past two years. The number of sputum smears examined increased from 466 000 in 1992 to 1.4 million in 1997. The decline in notifications from 1992 to 1996 is therefore not due to any reduced effort in case finding, and it may reflect a

genuine fall in the incidence rate. However, that cannot be proven with the data supplied for this report. Peru is the first NTP in the world to address systematically the problem of multi-drug resistant TB (MDR-TB) through an innovative scheme of referral to a special unit responding to the NTP manager. The high rate of case detection in Peru allows the programme to treat MDR-TB cases, via this mechanism, countrywide.

21. Zimbabwe

DOTS pilot projects began only during 1998, and yet Zimbabwe reported 100% DOTS coverage for that year. In fact, DOTS was implemented only in five districts during 1998, and plans exist to expand to all 58 districts by 2002. The 14 492 smear-positive cases notified in 1998 represent 59% of all estimated cases. The non-DOTS treatment success for 1997 was 69%, with high death (10%) and default rates (8%).

22. Cambodia

DOTS was introduced in 1994 and coverage reached all 23 provinces by 1998. The NTP doubled its treatment capacity from less than 10 000 TB patients in 1991 to nearly 20,000 in 1999. Some 12 686 smear-positive cases were notified in 1998, 54% of the estimated total, an increase of 4% over 1997. Cambodia has the highest case notification rate for new sputum smear-positive cases in the Western Pacific Region with 121 per 100 000 in 1998. Eighty-five percent of the treated patients are pulmonary positive, 4% are pulmonary negative and 6% are extra-pulmonary. Treatment success has been maintained above 85% since 1995, and reached 91% in 1997. The principal concern of the programme at present is the rapidly increasing case-load of TB patients related to HIV/AIDS epidemic. The prevalence of HIV infection is the highest in the Region (4% among 15–49 age group population or 200 000 cases in 1999), and 20% of TB patients are expected to be HIV positive in year 2000.

Progress in TB control in all DOTS countries

Of 91 DOTS countries for which data were submitted, 60 (66%) had treatment success rates over 70% (Figure 13, Annex 6). Among these 60 countries, 30 had DOTS detection rates above 50%, including Botswana, Chile, Morocco and Venezuela (Figure 14). These countries appear to have reached or are close to reaching WHO targets, but together account for only 8% of all incident TB cases. Of 71 countries that provided data from two consecutive cohorts, 62% showed higher treatment success rates during 1996–97. About half (34/71) improved DOTS detection by more than 1% whilst maintaining treatment success above 70%. Annex 6 tabulates case detection and treatment success rates by country for 1995 to 1998.

Figure 13. DOTS status in 1998. Estimated DOTS detection rate in 1998 and treatment success in 1997 for 90 countries reporting to WHO during 1998. The remaining DOTS countries have adopted the strategy too recently to provide data on treatment outcomes.

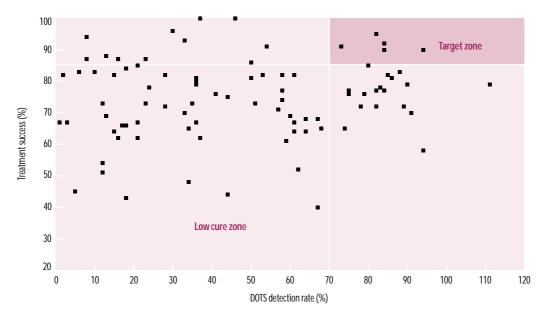
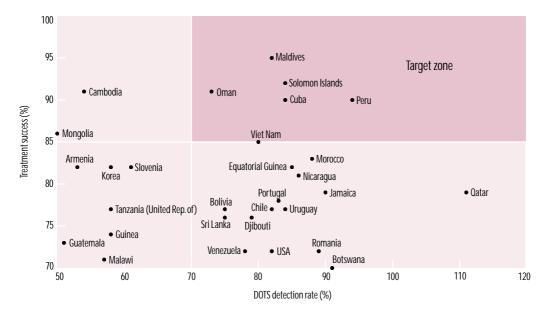


Figure 14. Magnified view of Figure 14, showing 30 countries that reported treatment success rates over 70% and estimated DOTS detection rates over 50%



Discussion

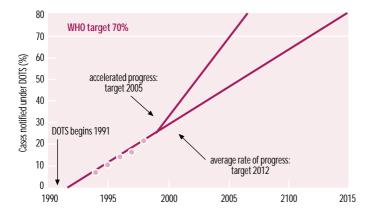
Global and regional progress in TB control

Progress in controlling tuberculosis accelerated somewhat during 1997-98. DOTS programmes reported the biggest annual increase in case detection so far, whilst maintaining a high average rate of treatment success.

The number of reporting DOTS countries increased from 102 in 1997 to 119 in 1998. Between 1997 and 1998, the shift continued away from categories 0 (no report) and 1 (non-DOTS), and towards categories 2 (pilot phase), 3 (expansion) and 4 (full coverage). The net increase in DOTS population coverage was 8%, up to 43%, and coverage has doubled since 1995. The fraction of all estimated cases reported climbed another increment from 38% to 40% (it was 34% in 1995). The fraction of all smear-positive cases treated under DOTS exceeded 20% for the first time in 1998, and has also doubled since 1995.

Compared with 1997, nearly quarter of a million (219 803) additional smear-positive cases (and nearly half a million more TB cases in total) were reported by DOTS programmes in 1998. This is the biggest recorded annual increment, although it followed a slower rate of improvement between 1996 and 1997 (Figure 15). If the average rate of increase is maintained, adding about 120 000 cases/year, 70% of cases would be detected under DOTS by year 2012. More optimistically, if programmes can add 250 000 cases annually, 70% case detection would be achieved by 2005. As reported for 1997, the greatest potential for im-

Figure 15. Progress towards the 70% case detection target. Points mark the number of smear-positive cases notified under DOTS 1994–1998, expressed as a percentage of all estimated cases (1997). The solid line through these points indicates the current average annual increment of about 120 000 new cases, which intersects the target in year 2012; the steeper line represents a higher annual increment of 250 000 cases, and reaches the 70% target by 2005.



proving case finding was in the South-East Asia Region, which had the highest incidence of TB cases, but a relatively low detection rate, especially of smear-positive cases (29%).

DOTS programmes have made these gains, in part, by claiming a proportion of cases from non-DOTS programmes, but this is recommended procedure. Because over 600 000 infectious cases were reported outside DOTS areas in 1998, it is conceivable that the same progress could be made under passive case detection for the next 2-3 years. Thereafter, a different strategy will be needed for finding cases that would not otherwise have been reported (either because they were treated but not notified, or because they were not treated).

The case detection rate accelerated under DOTS whilst the average treatment success rate remained high in the 1997 cohort. All regions, except Africa, had rates over 70%, and the global average (weighted by population size) under DOTS was 78%. Combining case detection

and treatment success, an estimated 14% of all smear-positive cases were cured under DOTS in 1997, up from 10% in 1996. The average re-treatment success rate (64%) was much lower than reported for 1996, largely because China provided no data.

Other new data in this report reinforce two familiar themes in global TB control. First, diagnosis and treatment appear to be better under DOTS: 65% of new pulmonary cases were sputum smear-positive (55–70% expected), compared with 34% elsewhere. Treatment success was also higher under DOTS (78% vs 38%), mainly because a greater fraction of registered cases was evaluated (94% vs 48%). The treatment success rates among evaluated cases were similar in DOTS and non-DOTS areas (85% and 79%), though cohort data from non-DOTS programmes are generally less trustworthy. In the African Region, the treatment success rate was low under DOTS (62%), but not as low as in 1996. As is often remarked, the elevated death rate (6%) is almost certainly linked to high HIV infection rates among TB patients, estimated to be 33% in 1997. HIV-related deaths are an obstacle to reaching the target cure rate in Africa, but treatment success was low in 1997 mainly because 12% of cases were not evaluated.

Second, whilst notification data need to be examined critically, several groups of countries show clear trends. TB incidence has been falling in Western Europe and Latin America since 1980, though the direct contribution of TB control to this decline is unclear. The decline in Western Europe has been steady at 4%/year since 1980, despite the growing number of cases among non-nationals. Eastern Europe has suffered a sharp rise in tuberculosis since 1992. The rate of increase has been the same as that in sub-Saharan Africa, which in that setting is almost certainly due to the spread of HIV.

This is the first of our reports to highlight regional variations in the age and sex distribution of notified smear-positive cases. These data represent TB epidemiology, distorted by reporting biases, both of which need to be understood so as to improve TB control. A full analysis of the data presented in Figure 9 is beyond the scope of this report. Nonetheless, a preliminary comparison of patterns at least serves to generate hypotheses that could be tested with further data.

Two clear results are that more cases are reported in men than women, and the male/ female ratio increases with age everywhere. The consistency of these patterns suggests that they represent epidemiological phenomena, and are not purely artefectual. Figure 9a-h orders groups of countries roughly according to the age at which the notification rate peaks, and this ranking is clearly related to present and past transmission and incidence rates. Bolivia, Haiti and Peru have the highest estimated TB incidence rates in Latin America, 14 and thus the earliest ages of infection and breakdown to disease. In contrast, industrialized countries now have low incidence rates, and most cases occur in older people who were infected years ago when transmission rates were higher. Prior to the mid-1980s, the average age of TB cases in Africa may have been increasing as the transmission rate slowly declined. HIV is probably reversing this trend by increasing the breakdown rate to TB in young, co-infected adults. African women with TB are younger than men with TB; women typically acquire HIV infection at younger ages, and this may be part of the explanation. The gap between men and women was greatest in Eastern Europe, where there has also been a resurgence of TB. The hypothesis to be tested here is that the notification rate has increased most sharply among men aged 35-54 years.

Progress in TB control in 22 high-burden countries

Based on 1998 estimates of case detection and treatment outcomes for the 1997 cohort, we have re-graded the top 22 countries as in Table 15. Six countries made sufficient progress to be reclassified with higher rank (bold, underlined). Data from 3 countries showed signs of deteriorating control, and moved to a lower rank (underlined). On balance, TB control in the high-burden countries in 1998 was better than in 1997, as indicated by higher DOTS coverage (43%), better case detection (20% of estimated smear-positive cases), and a marginally higher treatment success rate (82%). The large increment in the number of smear-positive cases reported under DOTS is explained mainly by improvements in China, South Africa, India, Bangladesh and the Philippines. Case detection rates accelerated in all these countries, except Bangladesh. Given the enormous populations of these countries, even a small percentage increase in case detection (as shown by the short arrows in Figure 12) means a large increase in the number of cases detected.

As in the previous report, the top performing countries (treatment success ≥70%, DOTS detection rate ≥50%) included representatives from Africa (Tanzania), Asia (Cambodia, Viet Nam) and Latin America (Peru). The central problem facing Tanzania and Cambodia is to maintain high-quality programmes, despite the spread of HIV. Kenya has slipped out of the

top rank since 1997 because treatment success fell to 65%, apparently due to a reporting error. The real treatment success appears to be 78%.

Peru and Viet Nam maintained case detection and treatment success rates above WHO targets between 1997 and 1998. Both programmes now have firm foundations upon which to diversify TB control. Peru has already begun to address the special problem of drug resistant and multi-drug resistant TB. Both countries should consider introducing additional indicators of impact to determine, for example, whether there has been a fall in incidence attributable to the control programme, and whether it is possible to quantify the number of deaths averted, as has been done in China. 15

Table 15. Progress in DOTS implementation: top 22 countries, 1996–98

| | | | DOTS | |
|--------------------|---------------------------------|------------------------------|-------------------------------|-----------------------------------|
| | | High tr | reatment success (2 | ≥ 70%) |
| Non-DOTS or | Low | | Intermediate | 111-1 |
| incomplete data | treatment success (< 70%) | Low case detection** (< 10%) | case detection (10–49%) | High case detection (≥ 50%) |
| Brazil* | <u>Afghanistan</u> | India | Bangladesh | Cambodia |
| Zimbabwe* | Congo, D.R. | | China | Peru |
| | <u>Indonesia</u> | | Ethiopia, F.D.R. | Viet Nam |
| | <u>Kenya</u> | | Myanmar | Tanzania |
| | Uganda | | <u>Nigeria</u> | |
| | <u>Pakistan</u> | | <u>Philippines</u> | |
| | Russian Federation | | South Africa | |
| | Thailand | | | |

Implementing DOTS but data not yet available

The seven countries in the second rank have high treatment success rates (> 70%) with intermediate rates of case detection (DDR 10-49%), and now include Nigeria, the Philippines and South Africa. Nigeria's main achievement has been to evaluate all registered smearpositive cases for treatment outcome. The Philippines has maintained high treatment success whilst expanding case detection, reporting an additional 11 000 smear-positive cases in 1998. South Africa has improved both treatment success and case detection. The challenges to the other members of this group are well-known. Thus, patients in Bangladesh are encouraged to seek treatment from health facilities delivering DOTS close to their homes, rather than at specialized TB institutions that do not provide DOTS. There are signs that this is now happening—Bangladesh reported 12 000 additional smear-positive cases under DOTS in 1998. China reported the biggest in-

crease in cases notified under DOTS during 1998, an extra 83 000 smear-postive cases, as compared with 1997. Though China must maintain and improve on its success in the 13 DOTS provinces, it must also extend DOTS to the other half of the country.

India is the sole remaining country with high treatment success and low national case detection rate (third rank). The persistently low case detection rate belies progress made since 1997. India reported an extra 12 000 smear-positive cases under DOTS in 1998, and improved treatment success in the 1997 cohort. DOTS should reach one quarter of the country by the end of 2000, and 35% of all smear-positive cases are now reported countrywide. India could therefore have moved up at least one rank by the time year 2000 notifications are reported to WHO. This would have a huge impact on the global case detection rate.

The Russian Federation and Uganda remain among the high-burden countries with low treatment success (fourth rank). The case detection rate in Uganda was higher than in Tanzania, a top-ranking country. However, treatment outcomes remained poor in 1997 because a high proportion of cases defaulted or were not evaluated. Even among patients that were treated successfully, about half did not have cure confirmed by smear examination. Russia continues to report low treatment success and low case detection; based on available information, drug resistance appears to be a partial explanation for low cure. Indonesia, Kenya and Thailand have moved down to this group because treatment success rates fell below 70% between 1996 and 1997. The benign explanation is that all three programmes failed to follow up all registered cases. In the three sets of cohort data, more than 70% of evaluated cases were successfully treated, though it is possible that the evaluated cases were a biased sample. Afghanistan, the Democratic Republic of the Congo and Pakistan moved up into this category by virtue of providing data to WHO; all three countries failed to report on treatment outcomes for 1996.⁷

The lowest rank in Table 15 is occupied by Brazil and Zimbabwe, both countries that

^{**} DOTS detection rate: patients found and treated through DOTS programmes. <u>Underline</u>: countries which have moved down one or more categories since 1997. **Underline bold:** countries which moved one or more categories up since 1997.

began to implement DOTS in 1998. Significantly, no high-burden country failed to provide WHO with data for this report, and none is actively promoting a system of TB control that is incompatible with DOTS. This underscores the principal conclusion of last year's report: the central problem in global TB control is to expand DOTS coverage in high-burden countries, where 95% of TB patients live. All of these countries have now accepted that the DOTS system embodies, for most patients, best practice in TB control.

Developments in tuberculosis monitoring and surveillance

An important limitation of our present global surveillance system is that it presents information with a delay of 1-2 years: in the year 2000, we are reporting on cases notified during 1998, and on treatment outcomes for patients registered in 1997. The advantages of rapid, accurate reporting are obvious: we could be more confident that case detection in countries such as India is accelerating, we could better assess whether the growth in Russian case notifications is at last beginning to slow, and we could more easily judge whether the excellent control programmes in Peru and Viet Nam are now forcing down incidence.

Three initiatives in 1999 began to address the problem of reporting delays.WHO's Eastern Mediterranean Office has introduced quarterly reporting from countries by fax. The European Office has developed the CISID system of reporting data through the Internet. The American Office now has on site the Access software developed at WHO Geneva for compiling notifications and treatment outcomes. Full details are available from the relevant Regional Offices.With these, and other similar developments, it should be possible to report aggregate case notifications and treatment outcomes (once evaluated) with a delay of only 3–6 months.

There are, however, some aspects of surveillance that are beyond the compass of the present system of recording and reporting. The current method of (mostly) quarterly reporting from districts cannot alert countries or regions to local outbreaks of, for example, multi-drug resistant TB. This will require a network of laboratories equipped and quality-controlled for drug-susceptibility testing. Some European countries already have a system for reporting laboratory diagnostic results to a central, national office. Euro TB (CESES) are now working on a Europe-wide extension of this network.

The tuberculosis epidemic is growing and becoming more dangerous each year. The World Health Organization's Programme on Communicable Diseases (CDS) monitors this epidemic, analyzing data from national control programmes and providing feedback on trends in disease and implementation of control strategies.



If you would like further information about tuberculosis or other communicable diseases, please contact Mireille Desplobains, tel +41 22 791 3504, e-mail desplobainsm@who.int or Sylvie Lamy Quique, tel +41 22 791 3986, e-mail lamyquiques@who.int or write to:

Information Resource Centre
Communicable Diseases
World Health Organization
20 avenue Appia
CH-1211 Geneva 27, Switzerland

You can also access our website at http://www.who.int.

Data collection Forms A and B

(used for data collection in 1999)



1999 TUBERCULOSIS DATA COLLECTION FORM

| 1 | Country: | | Date of Report// |
|---|---|------|------------------|
| | | | |
| 2 | Name of National TB Cont Programme Manager (or e | | |
| | Title: | | |
| | | | |
| | | | |
| | Telephone: | Fax: | E-mail: |

The WHO TB Control Strategy (DOTS) assessment (see Guidelines for further explanations)

| 3.1 | Do you routinely use sputum microscopy to diagnose suspected pulmonary TB | | | parts of |
|-----|---|-----|----|----------------|
| | cases? | Yes | No | country only |
| 3.2 | Do you use standardized, short-course chemotherapy (less than 9 months) all | | | parts of |
| | sputum smear positive cases? | Yes | No | country only □ |
| 3.3 | Do you provide directly observed treatment during, at least, the initial phase (2 | | | parts of |
| | or 3 months) of treatment? | Yes | No | country only □ |
| 3.4 | During the last year, have you always maintained sufficient supplies of drugs to | | | parts of |
| | treat all patients? | Yes | No | country only □ |
| 3.5 | Do you use a recording and reporting system consistent with the one | | | parts of |
| | recommended by WHO? | Yes | No | country only □ |
| 3.6 | Do you evaluate the treatment outcome of all new sputum smear positive cases | | | parts of |
| | using cohort analysis and WHO definitions? | Yes | No | country only □ |

4 National TB Control Policy and Training

| 4.1 | Do you have a national TB control manual which includes recommendations on questions 3.1 to 3.6? | Yes | No □ |
|-----|---|-----|------|
| 4.2 | Has the manual been reviewed (and endorsed) by WHO - Regional Office or Headquarters? | Yes | No □ |
| 4.3 | Has a training course which utilized the WHO training modules, or compatible tools, been organized within the past 2 years? | Yes | No □ |

If you answered questions 3.1 to 3.6 in the following manner:

| "Yes" to all questions | please complete Part A only (DOTS) |
|---|---|
| "Yes" and "Parts of country" to some of the questions | please complete Part A and B (DOTS and Non-DOTS |
| "No" to one or more of the questions | please complete Part B only (non-DOTS) |

PART A - For areas of the country where the WHO TB control strategy (DOTS) was implemented

| 5 | History | | |
|-----|--|--------|-------|
| 5.1 | When did you start using the WHO recommended recording and reporting system? | Month: | Year: |

6 Coverage in 1998

| 6.1 | How many basic administrative/operational units (where the TB register is being kept) in your country were implementing the WHO TB control strategy (DOTS) by December 31, 1998? | Total no. of administrative/ operational units in country: No. of administrative/ operational units implementing DOTS: | |
|-----|--|--|--|
| 6.2 | What proportion of the country's population live in these administrative/operational units (implementing DOTS)? | % | |
| 6.3 | Did all of these administrative/operational units (implementing DOTS) notify their TB cases to the central level? | Yes □ No □ | |
| | If not, how many administrative/operational units did not report? | No. not reporting: | |

FOR SECTIONS 7, 8, 9 and 10 - PLEASE REPORT FOR 1998 - Only DOTS areas

(If the data presented in these sections is only available for part of 1998, please indicate the period to which the data applies somewhere in the margins of the form.)

7 Case notifications (absolute numbers) – in DOTS areas

| | Pulr | nonary | | | | | |
|-----------|----------|----------------|----------------|-----------------|-------|--|--|
| Smear | Positive | Smear Negative | Smear not done | Extra-pulmonary | TOTAL | | |
| New Cases | Relapses | (c) | (d) | (e) | (f) | | |
| (a) | (b) | | | | ('/ | | |
| | | | | | | | |
| | | | | | | | |

Section 8 is optional. If you do not have this information available, please move on to Section 9.

8 Retreatment cases (absolute numbers) – in DOTS areas

| Smear-Positive | | | | | | | | |
|----------------|------------------------|------------------------------------|--------------|--|--|--|--|--|
| Relapses (a) | Failures <i>(b)</i> | Retreatment after interruption (c) | Total (d) | | | | | |
| | | | | | | | | |

9 New pulmonary smear positive cases by age and gender (absolute numbers) – in DOTS areas

| 0- | 14 | 15 | -24 | 25- | -34 | 35- | -44 | 45- | -54 | 55- | -64 | ≥(| 65 | TO | TAL |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|
| M | F | М | F | М | F | М | F | М | F | М | F | М | F | М | F |
| | | | | | | | | | | | · | | | | |
| | | | | : | | | | | | | | | | | |

10 Smear conversion—in DOTS areas

| 10.1 | What was the number of new sputum smear positive cases that converted to smear negative by | |
|------|--|-----------|
| | the end of the 3rd month of treatment? | |
| 10.2 | What was the number of new sputum smear positive cases that were evaluated for smear | - 100,000 |
| | conversion by the end of the 3rd month of treatment? | |

FOR SECTIONS 11 and 12 - PLEASE REPORT FOR 1997

(If the data presented in these sections is only available for part of 1997, please indicate the period to which the data applies somewhere in the margins of the form.)

IMPORTANT:

- 1. If DOTS was not implemented by the beginning of 1997, do not complete Sections 11 and 12. Please write the information in Part B, Section 15 (for new sputum smear positive cases only).
- 2. If any new sputum smear positive cases were treated with another regimen (not short-course), please record their treatment outcomes in Part B, section 16.

11 Treatment results for new pulmonary smear positive cases (absolute numbers) – in DOTS areas

| Total cases registered (a) | Total cases evaluated (b) | Smear negative at end of treatment (cured) (c) | Completed treatment, but smear not done at end of treatment (d) | Died (e) | Failure <i>(f</i>) | Interrupted Treatment (g) | Transferred out (h) |
|----------------------------------|---------------------------------|--|---|-------------|------------------------|---------------------------------|---------------------------|
| | | | | | | | |

12 Treatment results for retreatment smear positive cases (absolute numbers) – in DOTS areas

| Total cases registered (a) | Total cases evaluated (b) | Smear negative at end of treatment (cured) (c) | Completed treatment, but smear not done at end of treatment (d) | Died (e) | Failure <i>(f)</i> | Interrupted Treatment (g) | Transferred out (h) |
|----------------------------|---------------------------------|--|---|-------------|-----------------------|---------------------------------|---------------------------|
| | | | | | | | |

PART B - For areas of the country where the WHO TB control strategy was <u>not</u> implemented — (non-DOTS areas)

13 Coverage in 1998 – non-DOTS areas

| 13.1 | | Total no. of administrative/ operational units in the country: | | | | |
|------|---|--|--|--|--|--|
| 13.2 | What proportion of the country's population live in these administrative/operational units (non-DOTS areas)? | % | | | | |
| 13.3 | Did all of these administrative/operational units (non-DOTS areas) notify their TB cases to the central level? If not, how many did not report? | Yes □ No □ No. not reporting: | | | | |

FOR SECTIONS 14 and 15 - PLEASE REPORT FOR 1998

(If the data presented in these sections is only available for part of 1998, please indicate the period to which the data applies somewhere in the margins of the form.)

14 Case notifications (absolute numbers) – non-DOTS areas

| | Puli | monary | | | | |
|------------------|----------|----------------|----------------|-----------------|-------|--|
| Smear F | Positive | Smear Negative | Smear not done | Extra-pulmonary | TOTAL | |
| New Cases (a) | | | (c) (d) | | (f) | |
| | | | | | | |

New pulmonary smear positive cases by age and gender (absolute numbers) – non-DOTS areas

| 0- | 14 | 15- | -24 | 25- | -34 | 35- | -44 | 45- | -54 | 55- | -64 | ≥(| 35 | TO | ΓAL |
|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|
| М | F | М | F | М | F | M | F | M | F | М | F | M | F | М | F |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

FOR SECTIONS 16 - PLEASE REPORT FOR 1997

(If the data presented in these sections is only available for part of 1997, please indicate the period to which the data applies somewhere in the margins of the form.)

16 Treatment results for new smear positive cases (absolute numbers) – non-DOTS areas

| Total cases registered (a) | Total cases evaluated (b) | Smear negative at end of treatment (cured) (c) | Completed treatment, but smear not done at end of treatment (d) | Died <i>(e)</i> | Failure <i>(f)</i> | Interrupted Treatment (g) | Transferred out (h) |
|----------------------------------|---------------------------------|--|---|--------------------|-----------------------|---------------------------------|---------------------------|
| | | | | | | | |



1999 - TUBERCULOSIS DATA COLLECTION FORM

For countries where culture examinations are routinely available

| 1 | Country: | Date of Report// |
|---|--------------|------------------|
| L | 1 | |
| 2 | Title: | |
| | Telephone: F | ax: E-mail: |

3 WHO TB Control Strategy (see *Guidelines* for further explanations)

| 3.1 | Do you routinely use sputum microscopy to diagnose suspected pulmonary TB cases? | Yes | No | parts of country only □ |
|-----|---|-----|----|-------------------------|
| 3.2 | Do you use standardized, short-course chemotherapy (less than 9 months) all sputum smear positive cases? | Yes | No | parts of country only □ |
| 3.3 | Do you provide directly observed treatment during, at least, the initial phase (2 or 3 months) of treatment? | Yes | No | parts of country only □ |
| 3.4 | During the last year, have you always maintained sufficient supplies of drugs to treat all patients? | Yes | No | parts of country only □ |
| 3.5 | Do you use a recording and reporting system consistent with the one recommended by WHO? | Yes | No | parts of country only □ |
| 3.6 | Do you evaluate the treatment outcome of all new sputum smear positive cases using cohort analysis and WHO definitions? | Yes | No | parts of country only □ |

4 National TB Control Policy and Training

| 4.1 | Do you have a national TB control manual which includes recommendations on questions 3.1 to 3.6? | Yes | No □ |
|-----|---|-----|------|
| 4.2 | Has the manual been reviewed (and endorsed) by WHO - Regional Office or Headquarters? | Yes | No □ |
| 4.3 | Has a training course which utilized the WHO training modules, or compatible tools, been organized within the past 2 years? | Yes | No □ |

If you answered questions 3.1 to 3.6 in the following manner:

| "Yes" to all questions | | please complete Part A only. |
|---|---------|------------------------------|
| "Yes" and "Parts of country" to some of the questions | | please complete Part A and B |
| "No" to one or more of the questions | - | please complete Part B only. |

PART A - For areas of the country where the WHO TB control strategy was implemented (DOTS areas)

| 5 | History | | | | |
|-----|---|------------------------------|---|----------------|--|
| 5.1 | When did you start using the WHO recommended recording and reporting syst (DOTS)? | em | Year: | | |
| 6 | Coverage in 1998 | | | | |
| 6.1 | How many basic administrative/operational units (where the TB register is being kept) in your country were implementing the WHO TB control strategy by December 31, 1998? | operation No. of a operation | o. of administ onal units in o administrative onal units enting WHO | country: e/ | |
| 6.2 | What proportion of the country's population live in these administrative/operational units (implementing the WHO TB control strategy)? | - | % | | |
| 6.3 | Did all of these administrative/operational units (implementing the WHO TB control strategy) notify their TB cases to the central level? | Yes □ |] No 🗆 | | |
| | If not, how many administrative/operational units did not report? | No. not | reportina: | | |

FOR SECTIONS 7, 8, 9 and 10 - PLEASE REPORT FOR 1998

(If the data presented in these sections is only available for part of 1998, please indicate the period to which the data applies somewhere in the margins of the form.)

7 Case notifications (absolute numbers)

| | Pulmonary | | | | | | | | | TOTAL | |
|--------|-----------|------------|------------|--------|-----------|---------|----------|--------|----------|---------|----------|
| | Smear P | ositive | | Smear | Negative | Smear N | lot Done | new | | | |
| New C | | Rela (i | pses b) | | ew (c) | | ew d) | (e) | | (e) (f) | |
| | | | | | | | | | | | |
| C+ (g) | C-/? (h) | C+ (i) | C-/? (j) | C+ (k) | C-/? (I) | C+ (m) | C-/? (n) | C+ (o) | C-/? (p) | C+ (q) | C-/? (r) |
| | | | | | | | | | | | |

Notes:

If you do not do cultures, then fill in the upper level only (a-f).

C-/? = culture *negative* or *unknown* or *not done*.

"Recurrent" cases whose treatment history is no treatment or unknown should be counted as new (cell a).

Section 8 is optional. If you do not have this information available, please move on to Section 9.

8 Retreatment cases (absolute numbers)

| | Smear- | Other * | TOTAL | | |
|----------|----------|------------------------------------|-------------------------------|-----|-----|
| Relapses | Failures | Retreatment after interruption (c) | Unknown treatment outcome (d) | (e) | (f) |
| | | | | | |

^{* &}quot;Other" = a previously treated case who is culture-positive but smear-negative/unknown (regardless of the outcome of previous treatment).

9a New pulmonary smear positive cases by age and gender (absolute numbers)

| 0- | 14 | 15- | 24 | 25 | | 35- | -44 | 45- | | 55. | -64 | ≥∜ | `_ | TO | TAL |
|----|----|-----|----|----|---|-----|-----|-----|---|-----|-----|----|----|----|-----|
| М | F | М | F | М | F | М | F | М | F | М | F | М | F | М | F |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

9b New pulmonary culture positive cases by age and gender (absolute numbers)

| 0- | 14 | 15 | -24 | 25 | -34 | 35- | -44 | 45- | ·54 | 55- | -64 | ≥6 | 35 | TO | ΓAL |
|----|----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|
| М | F | М | F | М | F | М | F | М | F | М | F | М | F | М | F |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

Exclude extrapulmonary cases

10 Smear conversion

| 1 | 0.1 | What was the number of new sputum smear positive cases that converted to smear negative by the end of the 3rd month of treatment? | |
|---|-----|---|--|
| 1 | 0.2 | What was the number of new sputum smear positive cases that were evaluated for smear conversion by the end of the 3rd month of treatment? | |

FOR SECTIONS 11 and 12 - PLEASE REPORT FOR 1997

(If the data presented in these sections is only available for part of 1997, please indicate the period to which the data applies somewhere in the margins of the form.)

IMPORTANT:

- 1. If the WHO TB control strategy (DOTS) was not implemented by the beginning of 1997, do not complete Sections 11 and 12. Please write the information in Part B, Section 15 (for new sputum smear positive cases only).
- 2. If any new sputum smear positive cases were treated with another regimen (not short-course), please record their treatment outcomes in Part B, section 16.

11a Treatment results for new pulmonary smear positive cases (absolute numbers)

| Total cases registered | Total cases evaluated | Smear negative at end of | Completed treatment, but smear not done | Died | Failure | Interrupted Treatment | Transferred out |
|------------------------|--------------------------|--------------------------------|---|------|---------|--------------------------|-----------------|
| (a) | (b) | treatment | at end of treatment | | | | |
| | : | (c) | (d) | (e) | (f) | (g) | (h) |
| | | | | | | | |

3. If any new culture positive cases were treated with another regimen (not short-course), please record their treatment outcomes in Part B, section 16.

11b Treatment results for new pulmonary culture positive cases (absolute numbers)

| Total cases registered | Total cases evaluated | Culture negative at end of | Completed treatment, but culture not done | Died | Failure | Interrupted Treatment | Transferred out |
|------------------------|--------------------------|----------------------------------|---|------|---------|--------------------------|-----------------|
| (a) | (b) | treatment | at end of treatment | : | | | |
| | | (c) | (d) | (e) | (f) | (g) | (h) |
| | | | | | | | |

12a Treatment results for retreatment smear positive cases (absolute numbers)

| Total cases | Total cases | Smear | Completed | Died | Failure | Interrupted Treatment | Transferred |
|-------------|-------------|--------------------|--------------------------|------|---------|--------------------------|-------------|
| registered | evaluated | negative at end of | treatment, but smear not | | | rreaument | out |
| (a) | (b) | treatment | done at end of treatment | | | | |
| | | (c) | (d) | (e) | (f) | (g) | (h) |
| | | | | | | | |
| | | | | | | | |

12b Treatment results for retreatment culture positive cases (absolute numbers)

| Total cases registered | Total cases evaluated | Culture negative | Completed treatment, but culture not done | Died | Failure | Interrupted Treatment | Transferred out |
|------------------------|--------------------------|---------------------|---|------|---------|--------------------------|-----------------|
| (a) | (b) | <i>Z</i> | at end of treatment | | (0) | | <i>a</i> , |
| | | (c) | (d) | (e) | (†) | (g) | (h) |
| | | | | | | | |

Do not report treatment results on extrapulmonary cases

PART B - For areas of the country where the WHO TB control strategy was <u>not</u> implemented (NON-DOTS)

13 Coverage in 1998

| 13.1 | How many basic administrative/operational units (where the TB register is being kept) in your country were NOT implementing the WHO TB control strategy by December 31, 1998? | Total no. of administrative/ operational units in the country: No. of administrative/oper- ational units NOT imple- menting the WHO strategy: |
|------|---|--|
| 13.2 | What proportion of the country's population live in these administrative/operational units (not implementing the WHO TB control strategy)? | % |
| 13.3 | Did all of these administrative/operational units (not implementing the WHO TB control strategy) notify their TB cases to the central level? If not, how many did not report? | Yes □ No □ No. not reporting: |

FOR SECTIONS 14 and 15 - PLEASE REPORT FOR 1998

(If the data presented in these sections is only available for part of 1998, please indicate the period to which the data applies somewhere in the margins of the form.)

14 Case notifications (absolute numbers)

| | | | Pulmonar | У | | | | Extra-p | ulmonary | TOTAL | |
|---------|------------------------|---------|----------|------------|----------|------------|----------|---------|----------|--------|----------|
| | Smear P | ositive | | Smear | Negative | Smear N | lot Done | n | ew | | |
| , | Cases Relapses (a) (b) | | | new (c) | | new (d) | | (| (e) | (f) | |
| <u></u> | | | | | | | | | | | |
| C+ (g) | C-/? (h) | C+ (i) | C-/? (j) | C+ (k) | C-/? (I) | C+ (m) | C-/? (n) | C+ (o) | C-/? (p) | C+ (q) | C-/? (r) |
| | | | | | | | | | | | |

Notes:

If you do not do cultures, then fill in the upper level only (a-f).

C-/? = culture *negative* or *unknown* or *not done*.

"Recurrent" cases whose treatment history is no treatment or unknown should be counted as new (cell a).

15a New pulmonary smear positive cases by age and gender (absolute numbers)

| 0- | ·14 | 15- | -24 | 25- | -34 | 35. | -44 | 45 | -54 | 55- | -64 | | 35 | TO | TAL |
|----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|---|----|----|-----|
| М | F | М | F | М | F | М | F | М | F | М | F | М | F | М | F |
| | | | | | | | | | | | | | | | · |
| | | | | | | | | | | | | | | | |

15b New pulmonary culture positive cases by age and gender (absolute numbers)

| 0- | 14 | 15- | -24 | 25. | -34 | 35- | -44 | 45 | -54 | 55- | -64 | | 35 | TO | TAL |
|----|----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|---|----|----|-----|
| М | F | М | F | М | F | М | F | М | F | М | F | М | F | М | F |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

Exclude the extrapulmonary culture positive cases

FOR SECTIONS 16 - PLEASE REPORT FOR 1997

(If the data presented in these sections is only available for part of 1997, please indicate the period to which the data applies somewhere in the margins of the form.)

16a Treatment results for new smear positive cases (absolute numbers)

| Total cases | Total cases | Smear | Completed | Died | Failure | Interrupted | Transferred |
|-------------|-------------|-------------|----------------|------|---------|-------------|-------------|
| registered | evaluated | negative at | treatment, but | | | Treatment | out |
| | | end of | smear not | | | | |
| (a) | (b) | treatment | done at end | | | | |
| | | | of treatment | | | | |
| | | (c) | (d) | (e) | (f) | (g) | (h) |
| | | | | | | | |
| | | | | | | | |

16b Treatment results for new pulmonary culture positive cases (absolute numbers)

| Total cases | Total cases | Culture | Completed | Died | Failure | Interrupted | Transferred |
|-------------|-------------|-------------|------------------|------|---------|-------------|-------------|
| registered | evaluated | negative at | treatment, but | | | Treatment | out |
| | | end of | culture not done | | | | |
| (a) | (b) | treatment | at end of | | | | |
| | | | treatment | | | | |
| | | (c) | (d) | (e) | (f) | (g) | (h) |
| | | | | | | | |
| | | | | | | | |



Explanatory notes

GLOBAL PROFILE

Case Finding, 1998

Rows

- **DOTS** The information listed in this row refer to those areas of the Region in which DOTS is implemented.
- **non-DOTS** The information listed in this row refers to those areas of the Region in which DOTS is *not* implemented.
- **No report** The information listed in this row refers to those areas of the Region on which GTB has no direct information as no reports were received.
 - **Total** The sum of the three cells listed above (DOTS, non-DOTS, and no report).

Columns

- a The total number of people which live in those areas of the Region where DOTS is implemented/not implemented and on which no report is available.
- b The proportion of the population which lives in those areas of the Region where DOTS is implemented/not implemented and on which no report is available out of the total population of the Region.
- c The total number of tuberculosis cases (all types) notified to WHO.
- d The case notification rate (per 100 000 population) of those areas where DOTS is implemented/not implemented.
- e The proportion of the notified cases in those areas where DOTS is implemented/ not implemented out of the total number of notified cases.
- f The total number of new sputum smear positive cases notified to WHO.
- g The case notification rate (per 100 000 population) of the new sputum smear positive cases in those areas where DOTS is implemented/not implemented.
- h The total number of new sputum smear positive cases estimated for the entire Region, based on estimates provided in ref. 8 of the main text.
- f/h The proportion of new sputum smear positive cases notified by the Region out of the total number of new sputum smear positive cases estimated for the Region.
 - i The proportion of new sputum smear positive cases out of the number of new pulmonary cases (new sputum smear positive + sputum smear negative) in those areas where DOTS is implemented/not implemented. This indicator measures quality of diagnosis.

Explanatory notes

GLOBAL PROFILE

Treatment Outcomes, 1997

New sputum smear positive cases

- j The number of new smear positive cases registered in 1997.
- k The proportion of new smear positive cases not evaluated ([j]-[l+m+n+o+p+q]) out of the number of new smear positive cases registered (j). This indicator should at best be 0.0%, showing that all registered cases have been evaluated for treatment outcome.
- 1 The proportion of new sputum smear positive cases which were cured (defined as a patient who completed treatment and had a negative sputum smear result, on at least two occasions, one of which was at completion of treatment) out of the number of cases registered (j). This indicator should at least be 85%.
- m The proportion of new sputum smear positive cases which completed treatment (no or only one negative sputum exam at the end of treatment) out of the number of cases registered (j). This indicator should be as small as possible as all cases should have a sputum examination at the end of treatment.
- n The proportion of new sputum smear positive cases who did not collect anti-tuberculosis drugs for 2 months or more out of the number of cases registered (j). This indicator should be as close to zero as possible.
- o The proportion of new sputum smear positive cases who remained or became again smear positive 5 months or later after starting treatment out of the number of cases registered (j). This indicator should be as close to zero as possible.
- p The proportion of new sputum smear positive cases who died during treatment, regardless of cause, out of the number of cases registered (j). This indicator should be as close to zero as possible.
- q The proportion of new sputum smear positive cases who were transferred out to another treatment unit and whose treatment results are unknown out of the number of cases registered (j). This indicator should be close to zero since the treatment outcomes of all cases except those leaving the country should be known at national level, regardless of patients moving from one district to another.
- r The proportion of the sum of cases which were cured (l) and which completed treatment (m) out of the number of cases *registered* (j). This indicator measures the treatment success of the programme.

Retreatment cases

The same explanations apply as above.

(Retreatment cases are defined as those cases which previously received treatment but returned to the health centre with a positive sputum smear examination. These cases include defaulters (n), failures (o), and relapses, i.e., previously cured cases.)

Explanatory Notes

GLOBAL PROFILE

WHO TB Control Categories

No. of countries The number of countries, territories and areas.

No. of countries reporting The number of countries which have reported to WHO, using the appropriate TB data collection form, as of the date of the Global Profile.

No. of countries in category

- 0 The number of countries which have not reported to WHO.
- 1 Countries not implementing the DOTS strategy and having a case notification rate of over 10 cases per 100 000 population
- 2 The number of countries implementing the DOTS strategy in less than 10% of the total population (pilot phase).
- 3 The number of countries implementing the DOTS strategy in between 10 to 90% of the total population (expansion phase).
- 4 The number of countries implementing the DOTS strategy in over 90% of the total population (routine implementation).
- 5 The number of countries not implementing the DOTS strategy but having a case notification rate of less than 10 cases per 100 000 population (low incidence). These countries are considered as being of low priority because their TB burden is small.

Proportion of countries in category

- 0 The proportion of the total population of the Region leaving in those countries or areas which have not reported to WHO.
- 1 The proportion of the total population of the Region leaving in those countries or areas which do not accept DOTS and have a case notification rate of over 10 cases per 100 000 population.
- 2 The proportion of the total population of the Region leaving on those countries or areas which accept DOTS and implement it in <10% of their population.
- 3 The proportion of the total population of the Region leaving in those countries or areas which accept DOTS and implement it in <10-90% of their population.
- 4 The proportion of the total population of the Region leaving in those countries or areas which accept DOTS and implement it in >90% of their population.
- 5 The proportion of the total population of the Region leaving in those countries or areas which do not accept DOTS but have a case notification rate of <10 per 100 000 population.

Note: For category 2 and 3 under "Proportion of countries or areas in category", the proportion reported does not correspond to the true percentage of the global population having access to DOTS because not all of these countries implement the strategy in the entire country. A more realistic indicator for illustrating the population coverage with DOTS is shown on the first page of the Global Profile under column b/row "DOTS".

Global Profile

Case Finding (1998)

| | | Population Cove | red | | ١ | lotified Cases | / | | Estimated cases | Case detection | New ss+ / all |
|--------|-----------|-----------------|-------|-----------|-----------|----------------|--------------|------|-----------------|----------------|---------------|
| | | | Ī | | All types | | New ss | ;+ | New ss+ | | pulm. cases |
| | | No. | % | No. | Rate | % | No. | Rate | No. | % | % |
| | | а | b | С | d | е | f | g | h | f/h | i |
| AFR | DOTS | 366 893 569 | 61.0 | 495 736 | 135.1 | 76.6 | 249 692 | 68.1 | | | 63.4 |
| | non-DOTS | 217 377 244 | 36.1 | 151 106 | 69.5 | 23.4 | 86 181 | 39.6 | | | 71.9 |
| | no report | 17 518 687 | 2.9 | | | | | | | | |
| | Total | 601 789 500 | 100.0 | 646 842 | 110.7 | 100.0 | 335 873 | 57.5 | 676 886 | 49.6 | |
| AMR | DOTS | 473 675 988 | 58.7 | 116 816 | 24.7 | 49.2 | 71 044 | 15.0 | | | 74.8 |
| | non-DOTS | 301 949 144 | 37.4 | 120 630 | 40.0 | 50.8 | 58 950 | 19.5 | | | 60.5 |
| | no report | 31 633 504 | 3.9 | | | | | | | , | |
| | Total | 807 258 636 | 100.0 | 237 446 | 30.6 | 100.0 | 129 994 | 16.8 | 185 448 | 70.1 | |
| EMR | DOTS | 157 056 621 | 33.1 | 79 133 | 50.4 | 33.7 | 41 298 | 26.3 | | | 76.4 |
| | non-DOTS | 317 623 545 | 66.9 | 155 909 | 49.1 | 66.3 | 33 584 | 10.6 | | | 25.5 |
| | no report | 0 | 0.0 | | | | | | | | |
| | Total | 474 680 166 | 100.0 | 235 042 | 49.5 | 100.0 | 74 882 | 15.8 | 282 129 | 26.5 | |
| EUR | DOTS | 115 622 581 | 13.3 | 53 662 | 46.4 | 15.3 | 18 957 | 16.4 | | | 48.0 |
| | non-DOTS | 695 825 915 | 80.0 | 297 859 | 42.8 | 84.7 | 92 414 | 13.3 | | • | 36.2 |
| | no report | 58 715 488 | 6.7 | | | | | | | | |
| | Total | 870 163 984 | 100.0 | 351 521 | 43.3 | 100.0 | 111 371 | 13.7 | 197 052 | 56.5 | |
| SEAR | DOTS | 435 576 290 | 29.3 | 168 844 | 38.8 | 12.9 | 103 498 | 23.8 | | | 69.1 |
| | non-DOTS | 1 049 479 704 | 70.7 | 1 138 331 | 108.5 | 87.1 | 284 450 | 27.1 | | | 26.7 |
| | no report | 0 | 0.0 | | | | | | | ŗ | |
| | Total | 1 485 055 994 | 100.0 | 1 307 175 | 88.0 | 100.0 | 387 948 | 26.1 | 1 341 751 | 28.9 | |
| WPR | DOTS | 961 553 341 | 57.9 | 495 903 | 51.6 | 59.1 | 282 746 | 29.4 | | | 61.8 |
| | non-DOTS | 697 058 245 | 42.0 | 343 116 | 49.2 | 40.9 | 108 599 | 15.6 | | | 35.9 |
| | no report | 786 643 | 0.0 | | | | | | | - | |
| | Total | 1 659 398 229 | 100.0 | 839 019 | 50.6 | 100.0 | 391 345 | 23.6 | 891 198 | 43.9 | |
| 01.654 | 0.070 | | | | | | | | 3 | | |
| GLOBAL | DOTS | 2 510 378 390 | 42.6 | | 56.2 | | | 30.6 | | | 64.5 |
| | non-DOTS | 3 279 313 797 | 55.6 | 2 206 951 | 67.3 | 60.6 | 664 178 | 20.3 | | | 33.7 |
| | no report | 108 654 322 | 1.8 | 2 647 045 | 60.5 | 00.0 | 4 404 440 | 04.7 | 0.574.400 | 40.0 | |
| | Total | 5 898 346 509 | 100.0 | 3 617 045 | 62.5 | 99.6 | 1 431 413 | 24.7 | 3 574 463 | 40.0 | |

Treatment Outcomes (1997)

| | | | | | New s | s+ cas | es | | | | | | Re | treatm | ent ca | ases | | | |
|--------|----------|------------|-------------|--------------|--------------|-------------|---------------|-------------|---------------|---------------------------|------------|----------------|--------------|--------------|-------------|---------------|-------------|---------------|---------------------------|
| | | Registered | % not eval. | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treatm. success (%) | Registered | % not eval. | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treatm. success (%) |
| | | j | k | 1 | m | n | 0 | р | q | r | s | t | и | v | w | х | У | Z | aa |
| AFR | DOTS | 185 863 | 12.3 | 51.0 | 11.4 | 11.8 | 1.4 | 6.5 | 5.7 | 62.4 | 15 060 | 18.0 | 45.8 | 10.0 | 11.0 | 2.5 | 7.5 | 5.1 | 55.8 |
| | non-DOTS | 78 270 | 2.7 | 56.3 | 12.2 | 15.6 | 1.8 | 7.1 | 4.5 | 68.4 | | | | | | | | | |
| AMR | DOTS | 64 120 | 7.3 | 72.7 | 6.2 | 6.0 | 1.2 | 4.2 | 2.3 | 78.9 | 1 411 | 19.0 | 37.8 | 21.0 | 10.3 | 2.4 | 3.8 | 5.6 | 58.8 |
| | non-DOTS | 68 504 | 48.4 | 12.5 | 25.5 | 7.7 | 0.5 | 2.8 | 2.6 | 38.0 | | | | | | | | | |
| EMR | DOTS | 36.251 | 2.6 | 64.6 | 12.5 | 10.6 | 1.8 | 2.9 | 4.9 | 77.1 | 4 036 | 1.4 | 54.1 | 10.7 | 15.9 | 5.3 | 6.8 | 5.8 | 64.8 |
| | non-DOTS | 23 456 | 11.2 | 51.2 | 13.1 | 14.6 | 3.8 | 1.8 | 4.3 | 64.3 | | | | | | | | | |
| EUR | DOTS | 15 276 | 3.1 | 56.3 | 17.0 | 10.0 | 6.7 | 5.0 | 1.8 | 73.4 | 6 463 | 11.8 | 49.9 | 22.4 | 6.3 | 3.1 | 5.0 | 1.4 | 72.3 |
| | non-DOTS | 7 329 | 8.5 | 62.5 | 10.1 | 5.3 | 8.2 | 3.9 | 1.5 | 72.7 | | | | | | | | | |
| SEAR | DOTS | 71 475 | 13.6 | 65.8 | 6.2 | 7.3 | 1.4 | 3.4 | 2.2 | 72.0 | 6 248 | 6.9 | 58.7 | 7.7 | 12.2 | 4.2 | 6.2 | 4.1 | 66.4 |
| | non-DOTS | 304 995 | 78.8 | 2.9 | 16.4 | 1.3 | 0.1 | 0.1 | 0.3 | 19.3 | | | | | | | | | |
| WPR | DOTS | 242 818 | 2.1 | 91.7 | 1.1 | 1.2 | 1.1 | 1.7 | 1.1 | 92.8 | 5 921 | 9.2 | 72.9 | 5.4 | 2.4 | 3.9 | 3.8 | 2.4 | 78.2 |
| | non-DOTS | 50 713 | 5.2 | 76.6 | 4.0 | 6.0 | 4.0 | 1.6 | 2.6 | 80.6 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| GLOBAL | DOTS | 615 803 | | 72.0 | | | | | | | 39 139 | 12 | 53.2 | 11.5 | 9.6 | 3.4 | 6.1 | 4.0 | 64.7 |
| | non-DOTS | 533 267 | 52.8 | 21.9 | 15.5 | 5.3 | 1.0 | 1.8 | 1.6 | 37.5 | | | | | | | 1 | | |

WHO TB Control Categories (1998)

| Regions N | No. of countries | No. of | No. o | of cou | ıntrie | s in | cate | jory | Proportion of population in category (%) | | | | | | | | |
|-----------|------------------|-----------|-------|--------|--------|------|------|------|--|------|------|------|------|-----|--|--|--|
| | | countries | 0 | 1 | 2 | 3 | 4 | 5 | 0 | 1 | 2 | 3 | 4 | 5 | | | |
| AFR | 47 | 38 | 9 | 5 | 1 | 11 | 21 | | 2.9 | 7.0 | 1.1 | 54.4 | 34.6 | | | | |
| AMR | 44 | 35 | 9 | 8 | 5 | 6 | 13 | 3 | 3.9 | 2.5 | 22.6 | 19.6 | 51.3 | | | | |
| EMR | 23 | 23 | | 8 | 1 | 8 | 6 | | | 9.2 | 31.2 | 51.5 | 8.0 | | | | |
| EUR | 51 | 50 | 1 | 25 | 4 | 4 | 13 | 4 | 6.7 | 47.7 | 26.0 | 8.3 | 10.2 | 1.1 | | | |
| SEAR | 10 | 10 | | 1 | 1 | 5 | 3 | | | 1.6 | 66.1 | 30.9 | 1.4 | | | | |
| WPR | 36 | 28 | 8 | 10 | 1 | 6 | 10 | 1 | | 9.6 | 0.3 | 81.5 | 8.4 | 0.2 | | | |
| GLOBAL | 211 | 184 | 27 | 57 | 13 | 40 | 66 | 8 | 1.8 | 11.9 | 26.3 | 44.3 | 15.4 | 0.2 | | | |

No. of countries in each category: The text of this report incorrectly states that 189 countries reported, instead of 184, due to misclassifications discovered after going to print. In Table 6, the following should be in Category 0: Suriname (from Category 1, Table 6a), and British Virgin Islands, Netherlands Antilles, Turks and Caicos Islands, and the US Virgin Islands (from Category 5, Table 6). In addition, Northern Mariana Islands, Niue, and Tuvalu were incorrectly listed as Category 5 in Table 6b; they should be in Category 1. Figure 2 also contains these errors in DOTS categorization.

Proportion of population in each category: The proportions above comprise whole populations of countries in each category. In contrast, in the column "Populations Covered" on the first page of this Global Profile ("Case Finding"), a country's population may be split into both DOTS and non-DOTS areas. The proportions of DOTS populations above (Categories 2-4) are therefore not meant to correspond with the % population covered by DOTS in "Case Finding" (page 60) other than in Category 0.

ANNEX 3

Regional Profiles

Africa
The Americas
The Eastern Mediterranean
Europe
South East Asia
Western Pacific

For each Region:

- TB control police ■
- Regional profile
- Case notification by age and sex
 - Case notification trends

Explanatory Notes

REGIONAL PROFILE

Each Regional Profile is separated into two parts, each consisting of three sections:

Part 1 is on those areas of the country where DOTS is implemented.

Part 2 is on those areas of the country where DOTS is not implemented.

Each part has three sections:

- 1: country information.
- 2: coverage of TB control strategy.
- 3: treatment outcomes of new sputum smear positive cases and retreatment cases.

Country Information, 1998

- a The total number of people who live in the country.
- b The total number of tuberculosis cases (all types) notified to WHO.
- c The case notification rate (per 100 000 population).
- d The total number of new sputum smear positive cases notified to WHO.
- e The new sputum smear positive case notification rate (per 100 000 population).
- f The total number of new sputum smear positive cases estimated for the country.
- d/f The proportion of new sputum smear positive cases notified by the country (d) out of the total number of new sputum smear positive cases estimated for the country (f).
 - g The TB control category by which the country is classified.

WHO TB Control Strategy (DOTS)

Coverage

- h The total number of people which are covered by DOTS.
- h/a The proportion of the population covered by DOTS (h) out of the total population of the country (a).
 - i The number of case (all types) notified in those areas of the country where DOTS is implemented.
 - j The case notification rate (per 100 000 population) in those areas of the country where DOTS is implemented.
 - k The proportion of cases notified in those areas where DOTS is implemented (I) out of the total number of cases notified for the entire country (b).
 - 1 The number of new sputum smear positive case notified in those areas of the country where DOTS is implemented.
- m The new sputum smear positive case notification rate (per 100 000 population) in those areas of the country where DOTS is implemented.
- n The proportion of new sputum smear positive cases out of all new pulmonary cases. This indicator reflects prioritisation of and capability to perform smear microscopy examinations.

Explanatory Notes

REGIONAL PROFILE

Treatment Outcomes, 1997

New sputum smear positive cases

- o The number of new smear positive cases *registered* in 1997 in those areas of the country where DOTS is implemented.
- p The proportion of new smear positive cases not evaluated ([o]-[q+r+s+t+u+v]) out of the number of new smear positive cases registered (o). This indicator should at best be 0%, showing that all registered cases have been evaluated for treatment outcome.
- q The proportion of new sputum smear positive cases which were cured (defined as a patient who completed treatment and had a negative sputum smear result, on at least two occasions, one of which was at completion of treatment) out of the number of cases registered (o). This indicator should at least be 85%.
- r The proportion of new sputum smear positive cases which completed treatment (no or only one negative sputum examination at the end of treatment) out of the number of cases registered (o). This indicator should be as small as possible as all cases should have a sputum examination at the end of treatment.
- s The proportion of new sputum smear positive cases who did not collect anti-tuberculosis drugs for 2 months or more out of the number of cases evaluated (p). This indicator should be as close to zero as possible.
- t The proportion of new sputum smear positive cases who remained or became again smear positive 5 months or later after starting treatment out of the number of cases evaluated (p). This indicator should be as close to zero as possible.
- u The proportion of new sputum smear positive cases who died during treatment, regardless of cause, out of the number of cases registered (o). This indicator should be as close to zero as possible.
- v The proportion of new sputum smear positive cases who were transferred out to another treatment unit and whose treatment results are unknown out of the number of cases registered (o). This indicator should be close to zero since the treatment outcomes of all cases except those leaving the country should be known at national level, regardless of patients moving from one district to another.
- w The proportion of the sum of cases which were cured (q) and which completed treatment (r) out of the number of cases *registered* (o). This indicator measures the treatment success of the programme.

Retreatment cases

The same explanations apply as above.

(Retreatment cases are defined as those cases which previously received treatment but returned to the health centre with a positive sputum smear examination. These cases include defaulters (n), failures (o), and relapses, i.e., previously cured cases.)

Other Strategy (non-DOTS)

The same explanations apply as those listed under WHO TB Control Strategy (DOTS) except that all information shown here refer to those areas of the country where the strategy is not implemented.

Africa

African Region – Summary of TB control policies

| | | | | | DOTS | Technical E | lements | | |
|----------------------------------|--|---------------------------------|-----------------------|---------------------------------------|------------------|-------------|-----------------------|---|--------------------------------------|
| Country | Category of the country as of 31/12/97 | National manual ¹ | Training ² | Use of microscopy for diagnosis | SCC ³ | DOT⁴ | Drug availability⁵ | Recording and reporting system ⁶ | DOTS newly implemented in 1998 |
| Algeria | 1 | | | | | | | | |
| Angola | 3 | | | | | | | | |
| Benin | 4 | | | | | | | | |
| Botswana | 4 | | | | | | | | - |
| Burkina Faso | 4 | | | | | | | | |
| Burundi | 2 | | | | | | | | |
| Cameroon | 3 | | | | | | | | |
| Cape Verde | 1 | | | | | | | | |
| Central African Republic (the) | 1 | | | | | | | | |
| Chad | 1 | | | | | | | | |
| Comoros (the) | 0 | - | | | | | | | |
| Congo (the) | 4 | | | | | | | | |
| Côte d'Ivoire | 4 | | | | | | | | |
| Democratic Republic of the Cong | | | | | | | | | |
| Equatorial Guinea | 4 | | | | | | | | |
| Eritrea | 3 | | | | | | | | |
| Ethiopia | 3 | | | | | | | | - |
| Gabon | <u>3</u> 1 | | | | | | | | |
| | | | | | | | | | |
| Gambia (the) | 0 | | | | | | | | |
| Ghana | 3 | | | | | | | | |
| Guinea | 4 | | | | | | | | |
| Guinea-Bissau | 0 | | | | | | | | |
| Kenya | 4 | | | | | | | | |
| Lesotho | 0 | | | | | | | | |
| Liberia | 3 | | | | | | | | |
| Madagascar | 4 | | | | | | | | |
| Malawi | 4 | | | | | | | | |
| Mali | 3 | | | | | | | | |
| Mauritania | 0 | | | | | | | | |
| Mauritius | 4 | | | | | | | | |
| Mozambique | 4 | | | | | | | | |
| Namibia | 4 | | | | | | | | |
| Niger (the) | 3 | | | | | | | | |
| Nigeria | 3 | | | | | | | | |
| Rwanda | 4 | | | | | | | | |
| Sao Tome and Principe | 0 | | | | | | | | |
| Senegal | 4 | | | | | | | | |
| Seychelles | 4 | | | | | | | | X |
| Sierra Leone | 4 | | | | | | | | |
| South Africa | 3 | | | | | | | | |
| St. Helena | 0 | | | | | | | | |
| Swaziland | 0 | | | | | | | | |
| Togo | 4 | | | | | | | | |
| Uganda | 4 | | | | | | | | |
| United Republic of Tanzania (the | | | | | | | | | |
| Zambia | 0 | | | | | | | | |
| Zimbabwe | 4 | | | | | | | | X |
| · == ::= | • | | | | | | | | |

1 Presence of national manual, or a document issued by the government or an authorized scientific body, including policy recommendations endorsed by WHO

2 "WHO standard" training course on management of TB control programmes has been carried out within the past two years; or training materials endorsed by WHO or IUATLD

4 Directly observed treatment

5 A regular supply system of all essential anti-tuberculosis drugs and diagnostic materials

6 Presence of WHO/IUALTD recommended recording and reporting system showing assessment of treatment results

dark pink fully implemented (more than 90% of country)

light pink implemented in part of country

grey not implemented white

³ Short course chemotherapy

Regional Profile - AFR

| | | Cou | intry l | nformati | on (19 | 98) | | | WHO TB Control Strategy (DOTS) | | | | | | | | | |
|--|------------|----------------|---------|----------|--------|--------------------|---------------------|-------|--------------------------------|-------|----------------|-------|-----------------|---------------|-------|--------------------|--|--|
| | | | | | | | | | | | Cove | erage | | | % new | | | |
| Countries | | Notified Cases | | | | New ss+ | % case | Cate- | Population | | Notified cases | | % | New ss+ cases | | ss+ out of all new | | |
| | Population | All types | | New ss+ | | cases estimated | detection of new | gory | No. | (%) | No. | Rate | cases out of | notifi | ed | pulm. | | |
| | | No. | Rate | No. | Rate | esumateu | ss+ cases | | | | | | all cases | No. | Rate | cases | | |
| | | | | | | | | | | | | | | | | | | |
| | а | b | С | đ | е | f | d/f | g | h | h/a | i | j | k | | m | n | | |
| Algeria | 30 080 642 | 15 324 | 50.9 | 7 462 | | | | 1 | | | | | | | | L | | |
| Angola | 12 091 841 | 12 293 | 101.7 | 7 350 | 60.8 | | 60.8 | 3 | 4 377 246 | 36.2 | 10 387 | 237.3 | 84.5 | 5 444 | | 57.6 | | |
| Benin | 5 780 961 | 2 384 | 41.2 | 1 988 | | | 34.9 | 4 | 5 780 961 | 100.0 | 2 384 | 41.2 | 100.0 | 1 988 | 34.4 | 93.1 | | |
| Botswana | 1 570 226 | 4 764 | 303.4 | 2 826 | 180.0 | 3 112 | 90.8 | 4 | 1 570 226 | 100.0 | 4 764 | 303.4 | 100.0 | 2 826 | 180.0 | 77.4 | | |
| Burkina Faso | 11 304 557 | 2 074 | 18.3 | 1 331 | 11.8 | 7 262 | 18.3 | 4 | 11 078 466 | 98.0 | 2 074 | 18.7 | 100.0 | 1 331 | 12.0 | 86.7 | | |
| Burundi | 6 457 356 | 6 546 | 101.4 | 2 782 | 43.1 | 6 389 | 43.5 | 2 | 387 441 | 6.0 | 2 854 | 736.6 | 43.6 | 1 366 | 352.6 | 80.2 | | |
| Cameroon | 14 305 466 | 5 022 | 35.1 | 4 374 | 30.6 | 8 113 | 53.9 | 3 | 4 434 694 | 31.0 | 1 264 | 28.5 | 25.2 | 971 | 21.9 | 88.5 | | |
| Cape Verde | 408 172 | 205 | 50.2 | 104 | 25.5 | 300 | 34.7 | 1 | | | | | | | | | | |
| Central African Republic (the) | 3 484 881 | 4 875 | 139.9 | 2 637 | 75.7 | 3 178 | 83.0 | 1 | | | | | | | | | | |
| Chad | 7 270 337 | 2 784 | 38.3 | | | 6 143 | | 1 | | | | | | | | | | |
| Comoros (the) | 657 849 | | | | | 191 | | 0 | | | - | | | | | | | |
| Congo (the) | 2 785 423 | 3 863 | 138.7 | 2 044 | 73.4 | 3 129 | 65.3 | 4 | 2 785 423 | 100.0 | 3 863 | 138.7 | 100.0 | 2 044 | 73.4 | 68.8 | | |
| Côte d'Ivoire | 14 292 066 | 14 841 | 103.8 | 9 850 | 68.9 | 16 804 | 58.6 | 4 | 13 434 542 | 94.0 | 14 841 | 110.5 | 100.0 | 9 850 | 73.3 | 83.8 | | |
| Democratic Republic of the Congo (the) | 49 138 831 | 58 869 | 119.8 | 33 419 | 68.0 | 55 074 | 60.7 | 3 | 29 483 299 | 60.0 | 58 869 | 199.7 | 100.0 | 33 419 | 113.3 | 78.0 | | |
| Equatorial Guinea | 430 792 | 416 | 96.6 | 284 | 65.9 | 336 | 84.5 | 4 | 413 560 | 96.0 | 416 | 100.6 | 100.0 | 284 | 68.7 | 69.6 | | |
| Eritrea | 3 577 214 | 7 789 | 217.7 | 223 | 6.2 | 3 729 | 6.0 | 3 | 2 146 328 | 60.0 | 575 | 26.8 | 7.4 | 223 | 10.4 | 54.4 | | |
| Ethiopia | 59 649 132 | 69 472 | 116.5 | 18 864 | 31.6 | 67 295 | 28.0 | 3 | 38 414 041 | 64.4 | 69 472 | 180.9 | 100.0 | 18 864 | 49.1 | 40.4 | | |
| Gabon | 1 167 017 | 1 380 | 118.3 | 889 | 76.2 | 876 | 101.5 | 1 | | | | | | | | | | |
| Gambia (the) | 1 228 896 | | | | | 1 128 | | 0 | | | | | | | | | | |
| Ghana | 19 161 677 | 10 173 | 53.1 | 7 005 | 36.6 | 17 159 | 40.8 | 3 | 13 413 174 | 70.0 | 8 191 | 61.1 | 80.5 | 5 778 | 43.1 | 75.5 | | |
| Guinea | 7 336 704 | 4 783 | 65.2 | 3 362 | 45.8 | 5 748 | 58.5 | 4 | 7 336 704 | 100.0 | 4 783 | 65.2 | 100.0 | 3 362 | 45.8 | 87.0 | | |
| Guinea-Bissau | 1 161 155 | | | | | 873 | | 0 | | | | | | | | | | |
| Kenya | 29 007 622 | 48 936 | 168.7 | 24 029 | 82.8 | 35 297 | 68.1 | 4 | 29 007 622 | 100.0 | 48 936 | 168.7 | 100.0 | 24 029 | 82.8 | 57.9 | | |
| Lesotho | 2 061 859 | | | | | 3 772 | | 0 | | | | | | | | | | |
| Liberia | 2 665 567 | 1 753 | 65.8 | 1 190 | 44.6 | 2 719 | 43.8 | 3 | 1 066 227 | 40.0 | 1 753 | 164.4 | 100.0 | 1 190 | 111.6 | 75.7 | | |
| Madagascar | 15 057 063 | 14 661 | 97.4 | 9 639 | 64.0 | 14 985 | 64.3 | 4 | 14 153 639 | 94.0 | 14 661 | 103.6 | 100.0 | 9 639 | 68.1 | 88.0 | | |
| Malawi | 10 346 382 | 22 764 | 220.0 | 8 853 | 85.6 | 15 590 | 56.8 | 4 | 10 346 382 | 100.0 | 22 764 | 220.0 | 100.0 | 8 853 | 85.6 | 51.6 | | |
| Mali | 10 693 656 | 4 142 | 38.7 | 2 558 | 23.9 | 15 298 | 16.7 | 3 | 8 768 798 | 82.0 | 4 030 | 46.0 | 97.3 | 2 474 | 28.2 | 76.6 | | |
| Mauritania | 2 528 591 | | | | | 2 875 | | 0 | | | | | | | | | | |
| Mauritius | 1 141 261 | 135 | 11.8 | 108 | 9.5 | 335 | | | 1 141 261 | 100.0 | 135 | 11.8 | 100.0 | 108 | 9.5 | 92.3 | | |
| Mozambique | 18 879 889 | 19 672 | 104.2 | 12 116 | | 19 934 | 60.8 | | 17 935 895 | | 19 672 | | 100.0 | 12 116 | | 71.6 | | |
| Namibia | 1 659 506 | 7 972 | 480.4 | 3 490 | | 3 697 | 94.4 | | 1 659 506 | | 7 972 | | 100.0 | 3 490 | | 58.9 | | |
| Niger (the) | 10 078 493 | 3 470 | 34.4 | 2 127 | 21.1 | 6 371 | 33.4 | | 2 534 741 | 25.1 | 1 890 | | | 1 121 | 44.2 | | | |

Regional Profile - AFR

| | | Cou | intry I | nformation | 98) | WHO TB Control Strategy (DOTS) | | | | | | | | | | |
|-----------------------------------|-------------|-----------|----------|------------|-------|--------------------------------|------------------|-----------|--------------|-------|---------|-------|-----------------|---------|-----------------------|-------|
| | | | | | | | | | | | % new | | | | | |
| Countries | | | Notified | Cases | | New ss+ % case | Cate- | Populatio | n Notified o | | ases | % | | | ss+ out of all new | |
| | Population | All types | | New ss+ | | cases estimated | detection of new | gory | No. | (%) | No. | Rate | cases out of | notifie | | pulm. |
| | | No. | Rate | No. | Rate | | ss+ cases | | | | | | all cases | No. | Rate | cases |
| | а | b | С | d | e | f | d/f | g | h | h/a | i | j | k | 1 | m | n |
| Nigeria | 106 409 278 | 20 249 | 19.0 | 13 161 | 12.4 | 112 909 | 11.7 | 3 | 47 884 175 | 45.0 | 20 249 | 42.3 | 100.0 | 13 161 | 27.5 | 71.0 |
| Rwanda | 6 603 991 | 6 112 | 92.6 | 4 417 | 66.9 | 6 937 | 63.7 | 4 | 6 603 991 | 100.0 | 6 112 | 92.6 | 100.0 | 4 417 | 66.9 | 85.4 |
| Sao Tome and Principe | 141 000 | | | | | 76 | | 0 | | | | | - | | | |
| Senegal | 9 003 151 | 8 475 | 94.1 | 5 454 | 60.6 | 8 833 | 61.7 | 4 | 9 003 151 | 100.0 | 8 475 | 94.1 | 100.0 | 5 454 | 60.6 | 79.2 |
| Seychelles | 76 000 | 11 | 14.5 | 10 | 13.2 | 12 | 82.0 | 4 | 75 240 | 99.0 | 11 | 14.6 | 100.0 | 10 | 13.3 | 100.0 |
| Sierra Leone | 4 567 641 | 3 270 | 71.6 | 2 262 | 49.5 | 6 339 | 35.7 | 4 | 4 567 641 | 100.0 | 3 270 | 71.6 | 100.0 | 2 262 | 49.5 | 74.4 |
| South Africa | 39 357 467 | 128 415 | 326.3 | 82 293 | 209.1 | 69 800 | 117.9 | 3 | 8 658 643 | 22.0 | 22 121 | 255.5 | 17.2 | 16 246 | 187.6 | 89.0 |
| Swaziland | 952 074 | | | , | | 1 813 | | 0 | | | | | | | | |
| Togo | 4 397 477 | 1 212 | 27.6 | 932 | 21.2 | 6 410 | 14.5 | 4 | 4 397 477 | 100.0 | 1 212 | 27.6 | 100.0 | 932 | 21.2 | 97.2 |
| Uganda | 20 554 254 | 29 228 | 142.2 | 18 222 | 88.7 | 27 316 | 66.7 | 4 | 20 554 254 | 100.0 | 29 228 | 142.2 | 100.0 | 18 222 | 88.7 | 72.8 |
| United Republic of Tanzania (the) | 32 101 777 | 51 231 | 159.6 | 23 726 | 73.9 | 40 915 | 58.0 | 4 | 32 101 777 | 100.0 | 51 231 | 159.6 | 100.0 | 23 726 | 73.9 | 58.2 |
| Zambia | 8 781 263 | | | | | 19 464 | | 0 | | | | | | | | |
| Zimbabwe | 11 377 043 | 47 277 | 415.5 | 14 492 | 127.4 | 24 531 | 59.1 | 4 | 11 377 043 | 100.0 | 47 277 | 415.5 | 100.0 | 14 492 | 127.4 | 36.1 |
| Other Territories | | | | | | | | | | | | | | | | |
| St. Helena | 6 000 | | | | | 3 | | 0 | | | | | | | | |
| Regional Total | 601 789 500 | 646 842 | 110.7 | 335 873 | 57.5 | 676 886 | 49.6 | | 366 893 569 | 61.0 | 495 736 | 135.1 | 76.6 | 249 692 | 68.1 | 63.4 |

| | | Cou | ıntry l | nformatio | on (19 | 98) | | | | (| Other Str | ategy | y (non- | DOTS) | | |
|--|------------|----------|----------|-----------|--------|--------------------|------------------|-------|------------|-------|-------------|-------|-----------------|---------|-------|-----------------------|
| | | | | | | | | | | | Cove | erage | | | | % new |
| Countries | | | Notified | Cases | | New ss+ | % case | Cate- | Populatio | n | Notified ca | ases | % | New ss+ | | ss+ out of all new |
| | Population | All type | es | New ss | + | cases estimated | detection of new | gory | No. | (%) | No. | Rate | cases out of | notifi | | pulm. |
| | | No. | Rate | No. | Rate | esumateu | ss+ cases | | | | | | all cases | No. | Rate | cases |
| | а | b | С | d | е | f | d/f | g | h | h/a | i | j | k | 1 | m | n |
| Algeria | 30 080 642 | 15 324 | 50.9 | 7 462 | 24.8 | 6 032 | 123.7 | 1 | 30 080 642 | 100.0 | 15 324 | 50.9 | 100.0 | 7 462 | 24.8 | 82.0 |
| Angola | 12 091 841 | 12 293 | 101.7 | 7 350 | 60.8 | 12 094 | 60.8 | 3 | 7 714 595 | 63.8 | 1 906 | 24.7 | 15.5 | 1 906 | 24.7 | 100.0 |
| Benin | 5 780 961 | 2 384 | 41.2 | 1 988 | 34.4 | 5 690 | 34.9 | 4 | | | | | | | | |
| Botswana | 1 570 226 | 4 764 | 303.4 | 2 826 | 180.0 | 3 112 | 90.8 | 4 | | | | | | | | |
| Burkina Faso | 11 304 557 | 2 074 | 18.3 | 1 331 | 11.8 | 7 262 | 18.3 | 4 | | | | | | | | |
| Burundi | 6 457 356 | 6 546 | 101.4 | 2 782 | 43.1 | 6 389 | 43.5 | 2 | 6 069 915 | 94.0 | 3 692 | 60.8 | 56.4 | 1 416 | 23.3 | 41.0 |
| Cameroon | 14 305 466 | 5 022 | 35.1 | 4 374 | 30.6 | 8 113 | 53.9 | 3 | 9 870 772 | 69.0 | 3 758 | 38.1 | 74.8 | 3 403 | 34.5 | 94.0 |
| Cape Verde | 408 172 | 205 | 50.2 | 104 | 25.5 | 300 | 34.7 | 1 | 408 172 | 100.0 | 205 | 50.2 | 100.0 | 104 | 25.5 | 60.5 |
| Central African Republic (the) | 3 484 881 | 4 875 | 139.9 | 2 637 | 75.7 | 3 178 | 83.0 | 1 | 3 310 637 | 95.0 | 4 875 | 147.3 | 100.0 | 2 637 | 79.7 | 67.7 |
| Chad | 7 270 337 | 2 784 | 38.3 | | | 6 143 | | 1 | | | 2 784 | | 100.0 | | | |
| Comoros (the) | 657 849 | | | | | 191 | | 0 | | | | | | | | |
| Congo (the) | 2 785 423 | 3 863 | 138.7 | 2 044 | 73.4 | 3 129 | 65.3 | 4 | 2 785 423 | 100.0 | | | | | | |
| Côte d'Ivoire | 14 292 066 | 14 841 | 103.8 | 9 850 | 68.9 | 16 804 | 58.6 | 4 | - | | | | | | | |
| Democratic Republic of the Congo (the) | 49 138 831 | 58 869 | 119.8 | 33 419 | 68.0 | 55 074 | 60.7 | 3 | 19 655 532 | 40.0 | | | | | | |
| Equatorial Guinea | 430 792 | 416 | 96.6 | 284 | 65.9 | 336 | 84.5 | 4 | | | | | | | | |
| Eritrea | 3 577 214 | 7 789 | 217.7 | 223 | 6.2 | 3 729 | 6.0 | 3 | 1 430 886 | 40.0 | 7 214 | 504.2 | 92.6 | | | |
| Ethiopia | 59 649 132 | 69 472 | 116.5 | 18 864 | 31.6 | 67 295 | 28.0 | 3 | | | | | | | | |
| Gabon | 1 167 017 | 1 380 | 118.3 | 889 | 76.2 | 876 | 101.5 | 1 | 688 540 | 59.0 | 1 380 | 200.4 | 100.0 | 889 | 129.1 | 74.4 |
| Gambia (the) | 1 228 896 | | | | | 1 128 | | 0 | | | | | | | | |
| Ghana | 19 161 677 | 10 173 | 53.1 | 7 005 | 36.6 | 17 159 | 40.8 | 3 | 5 748 503 | 30.0 | 1 982 | 34.5 | 19.5 | 1 227 | 21.3 | 69.2 |
| Guinea | 7 336 704 | 4 783 | 65.2 | 3 362 | 45.8 | 5 748 | 58.5 | 4 | | | | | | | | |
| Guinea-Bissau | 1 161 155 | | | | | 873 | | 0 | | | | | | | | |
| Kenya | 29 007 622 | 48 936 | 168.7 | 24 029 | 82.8 | 35 297 | 68.1 | 4 | | | | | | | | |
| Lesotho | 2 061 859 | | | | | 3 772 | | 0 | | | | | | | | |
| Liberia | 2 665 567 | 1 753 | 65.8 | 1 190 | 44.6 | 2 719 | 43.8 | 3 | 1 599 340 | 60.0 | | | | | | |
| Madagascar | 15 057 063 | 14 661 | 97.4 | 9 639 | 64.0 | 14 985 | 64.3 | 4 | | | | | | | | |
| Malawi | 10 346 382 | 22 764 | 220.0 | 8 853 | 85.6 | 15 590 | 56.8 | 4 | | | | | | | | |
| Mali | 10 693 656 | 4 142 | 38.7 | 2 558 | 23.9 | 15 298 | 16.7 | 3 | 1 924 858 | 18.0 | 112 | 5.8 | 2.7 | 84 | 4.4 | 82.4 |
| Mauritania | 2 528 591 | | | | | 2 875 | | 0 | | | | | | | | |
| Mauritius | 1 141 261 | 135 | 11.8 | 108 | 9.5 | 335 | 32.2 | 4 | | | | | | | | |
| Mozambique | 18 879 889 | 19 672 | 104.2 | 12 116 | 64.2 | 19 934 | 60.8 | 4 | 943 994 | 5.0 | | - | | | | |
| Namibia | 1 659 506 | 7 972 | 480.4 | 3 490 | 210.3 | 3 697 | 94.4 | 4 | | | | | | | | |
| Niger (the) | 10 078 493 | 3 470 | 34.4 | 2 127 | 21.1 | 6 371 | 33.4 | 3 | 7 543 752 | 74.9 | 1 580 | 20.9 | 45.5 | 1 006 | 13.3 | 79.5 |

| | | Cou | intry li | nformatio | on (19 | 98) | | | | (| Other Sti | rateg | / (non- | DOTS) | | |
|-----------------------------------|-------------|----------|----------|-----------|--------|--------------------|---------------------|-------|-------------|------|------------|-------|-----------------|---|-------|-----------------------|
| | | | | | | | | | | | Cove | erage | | | | % new |
| Countries | | | Notified | Cases | | New ss+ | % case | Cate- | Populatio | n | Notified c | ases | % | New ss+ | | ss+ out of all new |
| | Population | All type | s | New ss | + | cases estimated | detection of new | gory | No. | (%) | No. | Rate | cases out of | notifi | | pulm. |
| | | No. | Rate | No. | Rate | estimated | ss+ cases | | | | | | all cases | No. | Rate | cases |
| | а | b | С | d | е | f | d/f | g | h | h/a | i | j | k | 1 | m | n |
| Nigeria | 106 409 278 | 20 249 | 19.0 | 13 161 | 12.4 | 112 909 | 11.7 | 3 | | Ī | | | | | | |
| Rwanda | 6 603 991 | 6 112 | 92.6 | 4 417 | 66.9 | 6 937 | 63.7 | 4 | | | | | | | | |
| Sao Tome and Principe | 141 000 | | | | | 76 | | 0 | | | | | - | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | |
| Senegal | 9 003 151 | 8 475 | 94.1 | 5 454 | 60.6 | 8 833 | 61.7 | 4 | | | | | | | | |
| Seychelles | 76 000 | 11 | 14.5 | 10 | 13.2 | 12 | 82.0 | 4 | | | | | | | | |
| Sierra Leone | 4 567 641 | 3 270 | 71.6 | 2 262 | 49.5 | 6 339 | 35.7 | 4 | | | | | | | | |
| South Africa | 39 357 467 | 128 415 | 326.3 | 82 293 | 209.1 | 69 800 | 117.9 | 3 | 30 698 824 | 78.0 | 106 294 | 346.2 | 82.8 | 66 047 | 215.1 | 74.9 |
| Swaziland | 952 074 | | | | | 1 813 | | 0 | | | | | | | | |
| Togo | 4 397 477 | 1 212 | 27.6 | 932 | 21.2 | 6 410 | 14.5 | 4 | | | | | | | | |
| Uganda | 20 554 254 | 29 228 | 142.2 | 18 222 | 88.7 | 27 316 | 66.7 | 4 | | | | | | | | |
| United Republic of Tanzania (the) | 32 101 777 | 51 231 | 159.6 | 23 726 | 73.9 | 40 915 | 58.0 | 4 | | | | | | | | |
| Zambia | 8 781 263 | | | | | 19 464 | | 0 | | | | | | | | |
| Zimbabwe | 11 377 043 | 47 277 | 415.5 | 14 492 | 127.4 | 24 531 | 59.1 | 4 | | | | | | | | |
| Other Territories | | | | | | | | | | | | | | | | |
| St. Helena | 6 000 | | | | | 3 | | 0 | | | | | | | | |
| Regional Total | 601 789 500 | 646 842 | 110.7 | 335 873 | 57.5 | 676 886 | 49.6 | i | 130 474 385 | 21.7 | 151 106 | 115.8 | 23.4 | 86 181 | 66.1 | 71.9 |

| | | | | | | ٧ | VHO | ГВ Сс | ntrol S | trategy | (DO | TS) | | | | | | |
|--|------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|-----------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|
| | | | | | | | Trea | itmen | t Outco | omes ir | 199 | 7 | | | | | | |
| | | | | New | ss+ ca | ses | | | | | | | Retrea | tmen | cases | ; | | |
| Countries | Registered | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) | Register -ed | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) |
| | 0 | р | q | r | s | t | и | V | w | x | у | Z | aa | ab | ac | ad | ae | af |
| Algeria | | | | | | | | | | | | | | | | | | |
| Angola | 8 246 | 77.6 | 9.8 | 4.8 | 6.0 | 0.6 | 1.2 | 0.2 | 14.5 | 1 340 | 83.6 | 5.9 | 3.8 | 3.5 | 2.5 | 0.7 | | 9.7 |
| Benin | 1 854 | 0.0 | 55.3 | 18.2 | 18.0 | 2.1 | 5.3 | 1.1 | 73.5 | 170 | 0.0 | 42.9 | 21.8 | 21.2 | 8.2 | 4.7 | 1.2 | 64.7 |
| Botswana | 2 635 | 0.9 | 27.7 | 42.8 | 10.4 | | 7.3 | 10.9 | 70.5 | | | | | | | | | |
| Burkina Faso | 1 281 | 0.0 | 51.3 | 9.9 | 20.8 | 2.3 | 11.5 | 4.3 | 61.2 | | | | | | | | | |
| Burundi | 1 138 | 0.0 | 38.1 | 29.3 | 27.9 | 1.1 | 2.5 | 1.1 | 67.5 | - | | | | | | | - | |
| Cameroon | 460 | 0.0 | 78.3 | 2.0 | 6.3 | 2.2 | 10.0 | 1.3 | 80.2 | 63 | 0.0 | 66.7 | 1.6 | 14.3 | 6.3 | 4.8 | 6.3 | 68.3 |
| Cape Verde | | | | | | | | | | | | | | | | | | |
| Central African Republic (the) | | | | | | | | | | | | | | | | | | |
| Chad | | | | | | | | | | | | | | | | | | |
| Comoros (the) | | | | | | | | | | | | | | | | | | |
| Congo (the) | | | | | | | | | | | | | | | | | | |
| Côte d'Ivoire | 8 083 | 0.0 | 54.3 | 6.7 | 17.9 | 1.7 | 5.3 | 14.1 | 61.1 | 361 | 0.0 | 54.3 | 11.6 | 18.0 | 3.0 | 7.8 | 5.3 | 65.9 |
| Democratic Republic of the Congo (the) | 25 183 | 14.5 | 52.2 | 11.5 | 8.0 | 1.0 | 4.8 | 7.9 | 63.7 | 2 771 | 34.7 | 40.4 | 5.7 | 4.8 | 1.5 | 4.9 | 8.0 | 46.1 |
| Equatorial Guinea | 226 | 0.0 | 64.2 | 17.7 | 9.3 | 3.1 | 5.3 | 0.4 | 81.9 | 16 | 0.0 | 50.0 | 12.5 | 25.0 | 12.5 | | | 62.5 |
| Eritrea | 128 | 7.0 | 75.0 | 7.8 | 1.6 | 1.6 | 0.8 | 6.3 | 82.8 | | | - | | | | | | |
| Ethiopia | 11 592 | 4.4 | 61.2 | 10.4 | 11.7 | 1.0 | 6.6 | 4.7 | 71.7 | 784 | 0.0 | 52.2 | 17.1 | 13.3 | 4.0 | 8.3 | 5.2 | 69.3 |
| Gabon | | | | | | | | | | | | | | | | | | |
| Gambia (the) | | | | | | | | | | | | | | | | | | |
| Ghana | 5 596 | 13.2 | 40.0 | 8.3 | 23.9 | 2.4 | 7.5 | 4.7 | 48.3 | *** | | | | | | | | |
| Guinea | 2 981 | 0.0 | 59.4 | 14.5 | 10.0 | 1.6 | 8.1 | 6.4 | 73.9 | 120 | 0.0 | 40.8 | 5.0 | 23.3 | 5.0 | 14.2 | 11.7 | 45.8 |
| Guinea-Bissau | | | | | | | | | | | | | | | | | | |
| Kenya | 19 040 | 15.5 | 52.9 | 12.2 | 7.4 | 0.5 | 4.8 | 6.7 | 65.1 | 1 386 | 28.5 | 47.5 | 7.1 | 5.8 | 0.6 | 6.1 | 4.3 | 54.7 |
| Lesotho | | | | | | | | | | | | | | | | | | |
| Liberia | 1 139 | 0.0 | 43.8 | 31.0 | 21.5 | 1.4 | 2.3 | | 74.8 | 27 | 0.0 | 25.9 | 29.6 | 22.2 | 7.4 | 14.8 | | 55.6 |
| Madagascar | 9 229 | 4.1 | 55.5 | 8.6 | 18.5 | 6.9 | 1.4 | 4.9 | 64.1 | 1 136 | 12.0 | 55.3 | 6.6 | 12.5 | 5.8 | 3.1 | 4.8 | 61.9 |
| Malawi | 7 587 | 0.3 | 68.3 | 2.5 | 4.2 | 0.9 | 20.8 | 3.1 | 70.8 | 517 | 0.0 | 68.5 | 2.3 | 3.7 | 1.2 | 23.0 | 1.4 | 70.8 |
| Mali | 812 | 0.0 | 45.7 | 16.7 | 28.0 | 1.6 | 1.2 | 6.8 | 62.4 | | | - | | | | | | |
| Mauritania | | | | | | | | | | | | | | | | 7 | | |
| Mauritius | | | | | | | | | | | | | | | | | | |
| Mozambique | 8 571 | 0.5 | 58.7 | 7.8 | 16.0 | 1.7 | 8.6 | 6.7 | 66.5 | 890 | 9.0 | 60.4 | 3.8 | 13.4 | 1.7 | 6.4 | 5.3 | 64.3 |
| Namibia | 3 223 | 8.7 | 33.5 | 24.6 | 18.9 | 1.4 | 5.9 | 7.0 | 58.1 | 428 | 0.0 | 38.3 | 23.4 | 17.3 | 5.1 | 8.9 | 7.0 | 61.7 |
| Niger (the) | 734 | 2.6 | 38.7 | 27.7 | 12.1 | 3.7 | 9.9 | 5.3 | 66.3 | 147 | 3.4 | 43.5 | 6.8 | 23.1 | 8.8 | 7.5 | 6.8 | |

Regional Profile - AFR cont'd.

| | | | | | | V | VHO . | ТВ Сс | ntrol S | trategy | (DO | TS) | | | | | | |
|-----------------------------------|------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|-----------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|
| | | | | | | | Trea | atmen | t Outco | omes ir | 199 | 7 | | | | | | |
| | | | | New | ss+ ca | ses | | | | | | | Retrea | atment | cases | 3 | | |
| Countries | Registered | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) | Register -ed | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) |
| | o | р | q | r | s | t | и | v | w | х | У | z | aa | ab | ac | ad | ae | af |
| Nigeria | 11 253 | 0.0 | 60.4 | 12.6 | 14.9 | 2.7 | 6.9 | 2.4 | 73.0 | | | | | | | | | |
| Rwanda | 2 922 | 0.0 | 42.8 | 25.4 | 8.8 | 1.1 | 7.9 | 14.0 | 68.2 | 173 | 0.0 | 29.5 | 28.3 | 12.1 | 3.5 | 12.7 | 13.9 | 57.8 |
| Sao Tome and Principe | | | | | | | | | | | | | | | | | | |
| Senegal | 5 340 | 19.2 | 45.1 | 6.6 | 19.9 | 1.9 | 2.9 | 4.5 | 51.7 | 725 | 0.0 | 47.0 | 7.6 | 32.6 | 3.3 | 5.1 | 4.4 | 54.6 |
| Seychelies | 11 | 0.0 | 100.0 | | | | | | 100.0 | | | | | | | | | |
| Sierra Leone | 1 958 | 0.0 | 69.7 | 9.6 | 12.8 | 1.4 | 5.8 | 0.7 | 79.3 | 193 | 0.0 | 69.4 | 4.7 | 10.9 | 4.7 | 8.3 | 2.1 | 74.1 |
| South Africa | 4 146 | 1.1 | 68.2 | 4.9 | 10.9 | 3.0 | 4.9 | 6.9 | 73.2 | 533 | 3.8 | 63.4 | 4.7 | 11.4 | 3.2 | 5.6 | 7.9 | 68.1 |
| Swaziland | | | | | | | | | | | | | | | | | | |
| Togo | 931 | 1.2 | 43.4 | 20.3 | 18.5 | 1.2 | 9.8 | 5.7 | 63.7 | 49 | 0.0 | 26.5 | 18.4 | 36.7 | 8.2 | 8.2 | 2.0 | 44.9 |
| Uganda | 17 500 | 34.7 | 19.7 | 20.0 | 14.2 | 0.4 | 6.1 | 4.9 | 39.7 | 1 136 | 0.0 | 31.6 | 26.3 | 23.6 | 1.2 | 10.4 | 6.9 | 57.9 |
| United Republic of Tanzania (the) | 22 064 | 2.8 | 71.2 | 5.5 | 6.2 | 0.6 | 9.0 | 4.7 | 76.7 | 2 095 | 0.0 | 60.8 | 14.1 | 6.4 | 1.1 | 13.8 | 3.8 | 74.9 |
| Zambia | | | | | , | | | | | | | | | | | | | |
| Zimbabwe | | | | | | | | | | | | | | | | | | |
| Other Territories | | | | ····· | | | | | | | | • | • | | | • | | |
| St. Helena | | | | | | | | | | | | | | | | | | |
| Regional Total | 185 863 | 12.3 | 51.0 | 11.4 | 11.8 | 1.4 | 6.5 | 5.7 | 62.4 | 15 060 | 5.4 | 45.8 | 10.0 | 11.0 | 2.5 | 7.5 | 5.1 | 55.8 |

| | | | | | | | Ot | her S | trategy | (non-E | OOTS |) | | | | | | |
|--|------------|--------------|-------|--------|--------|----------|-------|--------|----------------|----------|--------------|-------|--------|-------|---------|-------|--------|----------------|
| | | | | | | | Tre | atme | nt Outc | omes i | n 199 | 97 | | | | | | |
| | | | New s | s+ cas | es (Sh | ort Co | urse) | | | | | New s | s+ cas | es (O | ther Re | gimen |) | |
| Countries | Registered | Not | | Comp. | Def. | Failed | | Trans. | Treat. | Register | Not | | Comp. | | Failed | | Trans. | Treat. |
| | | eval. (%) | (%) | (%) | (%) | (%) | (%) | (%) | Success (%) | -ed | eval. (%) | (%) | (%) | (%) | (%) | (%) | (%) | Success (%) |
| | 0 | р | q | r | s | t | и | V | W | х | У | Z | aa | ab | ac | ad | ae | af |
| Algeria | 6 860 | 0.0 | 82.1 | 3.5 | 5.3 | 0.8 | 2.8 | 5.5 | 85.6 | | | | | İ | | | | |
| Angola | | | | | | | | | | - | | | | | | | | |
| Benin | | | | | | | | | | | | | | | | | | |
| Botswana | | | | | | | | | | | | | | | | | | |
| Burkina Faso | | | | | | | | | | ĺ | | | | | | | | |
| Burundi | 1 051 | 0.5 | 17.2 | 48.2 | 28.9 | 0.2 | 4.8 | 0.2 | 65.5 | | | | | | | | | |
| Cameroon | 3 117 | 0.0 | 50.1 | 7.2 | 28.0 | 1.5 | 8.9 | 4.3 | 57.3 | | | | | | | | | |
| Cape Verde | | | | | | | | | | | | | | | | | | |
| Central African Republic (the) | | | | | | | | | | | | | | | | | | |
| Chad | | | | | | | | | | | | | | | | | | |
| Comoros (the) | | | | | | | | | | | | | | | | | | |
| Congo (the) | | | | | | | | | | | | | | | | | | |
| Côte d'Ivoire | | | | | | | | | | | | | | | | | | |
| Democratic Republic of the Congo (the) | 814 | 0.0 | 46.6 | 23.2 | 13.5 | 2.2 | 10.8 | 3.7 | 69.8 | | | | | | | | | |
| Equatorial Guinea | | | | | | | | | | | | | | | | | | |
| Eritrea | | | | | | | | | | | | | | | | | | |
| Ethiopia | | | | | | | | | | | | | | | | | | |
| Gabon | 577 | 33.3 | 43.8 | 5.9 | 13.0 | 0.2 | 0.3 | 3.5 | 49.7 | | | | | | | | | |
| Gambia (the) | | | | | | | | | | | | | | | | | | |
| Ghana | | | | | | | | | | | | | | | | | | |
| Guinea | | | | | | | | | | | | | | | | | | |
| Guinea-Bissau | | - | | | | | | | | | | | | | | | | |
| Kenya | | | | | | | | | | | | | | | | | | |
| Lesotho | | | | | | | | | | | | | | | | | | |
| Liberia | | | | | | | | | | | | | | | | | | |
| Madagascar | | | | | | | | | | | | | | | 1 | | | |
| Malawi | | | | | | | | | | | 1 | | | | | | | |
| Mali | | | | | | | | | | | | 1 | | | | | | |
| Mauritania | | | | | | | | | | | T | | | | | | | |
| Mauritius | | | | | | | 1 | - | | | | | | | | | | |
| Mozambique | 2 587 | 1.6 | 48.9 | 10.4 | 23.7 | 2.6 | 8.9 | 3.8 | 59.3 | | | | | | | | | |
| Namibia | | | _ | | | | | | | | | | | | | | | 1 |
| Niger (the) | | | | | | | | | | | | | | | | | | |

Regional Profile - AFR cont'd.

| | | | | | | | O | her S | trategy | (non-E | OOTS | 5) | | | | | | |
|-----------------------------------|------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|-----------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|
| | | | | | | | Tre | atme | nt Outc | omes i | n 199 | 97 | | | | | | |
| | | | New s | s+ cas | es (Si | hort Co | urse) | - | | | | New s | s+ cas | es (O | ther Re | gimen |) | 1 |
| Countries | Registered | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) | Register -ed | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) |
| | o | р | q | r | s | t | u | v | w | x | У | Z | aa | ab | ac | ad | ae | af |
| Nigeria | | | | | | | | | | | Ì | | | | | | | |
| Rwanda | | | | | | | | | | | | | | | | | | |
| Sao Tome and Principe | | | | | | | | | | | | | | | | | | |
| Senegal | | | | | | | | | | | | | | | | | | |
| Seychelles | | | | | | | | | | | | | | | | | | |
| Sierra Leone | | | | | | | | | | | | | | | | | | |
| South Africa | 50 854 | 3.6 | 55.9 | 11.6 | 17.3 | 2.3 | 6.7 | 2.5 | 67.4 | | | | | | | | *********** | |
| Swaziland | | | | | | | | | | | | | | | | | | |
| Togo | | | | | | | | | | | | | | | | | | |
| Uganda | | | | | | | | | | | | | | | | | | |
| United Republic of Tanzania (the) | | | | | | | | | | | | | | | | | | |
| Zambia | | | | | | | | | | | | | | | | | | |
| Zimbabwe | 12 410 | 0.0 | 51.3 | 17.5 | 8.2 | 0.2 | 10.2 | 12.7 | 68.8 | | | | | | | | | |
| Other Territories | | | | | | | | | | | | **** | | | | | | |
| St. Helena | | | | | | | | | | | | | | | | | | |
| Regional Total | 78 270 | 2.7 | 56.3 | 12.2 | 15.6 | 1.8 | 7.1 | 4.5 | 68.4 | | | | | | | | | |

AFR - Notification rates by age and sex, 1998.

| | | | | | MALE | | | | | | | F | EMALE | | | | | | | | ALL | | | | |
|--|------------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| | Age groups | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total |
| Algeria | | | | | | | | | | | - | | | | | | | | | | | | | | |
| Angola | | 8.3 | 81.3 | 128.8 | 165.6 | 136.5 | 98.3 | 89.0 | 63.1 | 10.3 | 95.4 | 127.7 | 117.2 | 86.7 | 68.0 | 49.1 | 58.2 | 9.3 | 88.4 | 128.3 | 140.8 | 110.7 | 82.3 | 66.9 | 60.6 |
| Benin | | 1.5 | 41.7 | 102.4 | 103.0 | 127.8 | 126.7 | 89.8 | 44.3 | 1.1 | 33.3 | 63.4 | 54.6 | 39.2 | 39.5 | 24.2 | 24.9 | 1.3 | 37.5 | 82.2 | 76.7 | 82.8 | 80.8 | 57.1 | 34.4 |
| Botswana | | | | | | | | | | | | | | | | | | | | | | | | | |
| Burkina Faso | | 0.1 | 9.3 | 35.8 | 53.2 | 54.0 | 46.9 | 49.8 | 16.4 | 0.3 | 7.5 | 13.0 | 19.0 | 26.1 | 14.9 | 8.9 | 7.1 | 0.2 | 8.4 | 24.4 | 36.0 | 39.6 | 29.9 | 27.4 | 11.8 |
| Burundi | | 3.0 | 49.2 | 122.4 | 172.1 | 206.2 | 126.9 | 50.2 | 58.8 | 3.3 | 42.7 | 72.7 | 73.9 | 67.2 | 40.8 | 15.5 | 32.3 | 3.1 | 45.9 | 97.3 | 121.7 | 130.0 | 76.2 | 29.0 | 45.2 |
| Cameroon | | 0.5 | 45.9 | 105.7 | 125.4 | 60.8 | 29.7 | 15.4 | 40.0 | 1.0 | 31.2 | 61.7 | 41.4 | 24.5 | 16.5 | 11.0 | 21.3 | 0.7 | 38.5 | 83.6 | 82.8 | 42.1 | 22.8 | 13.0 | 30.6 |
| Cape Verde | | 2.4 | 21.0 | 41.2 | 91.0 | 209.1 | 128.9 | 143.3 | 31.7 | 2.5 | 26.8 | 10.6 | 20.3 | 37.3 | 47.4 | 93.5 | 18.9 | 2.4 | 24.0 | 25.2 | 47.5 | 82.4 | 72.4 | 112.0 | 24.7 |
| Central African Republic (the) | | 3.8 | 61.5 | 217.3 | 205.8 | 150.0 | 106.6 | 81.8 | 78.2 | 9.0 | 101.2 | 199.3 | 124.7 | 96.5 | 71.5 | 34.6 | 73.5 | 6.4 | 81.8 | 207.9 | 163.4 | 121.5 | 87.5 | 54.8 | 75.7 |
| Chad | | | | | | | | | | | | | | | | | | | | | | | | | |
| Congo (the) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Côte d'Ivoire | | 2.3 | 78.2 | 176.6 | 219.5 | 176.6 | 143.6 | 133.1 | 82.0 | 3.3 | 64.4 | 116.0 | 116.1 | 90.3 | 48.3 | 54.3 | 48.9 | 2.8 | 71.3 | 147.1 | 170.4 | 136.8 | 99.4 | 94.9 | 65.7 |
| Democratic Republic of the Congo (the) | 1 | 3.8 | 80.4 | 163.8 | 175.7 | 150.0 | 118.2 | 90.3 | 67,1 | 5.5 | 88.3 | 143.8 | 129.3 | 89.8 | 73.1 | 35.6 | 57.5 | 4.7 | 84.4 | 153.7 | 152.1 | 118.8 | 93.9 | 59.0 | 62.2 |
| Equatorial Guinea | | 6.4 | 76.4 | 163.4 | 192.1 | 206.6 | 168.1 | 148.2 | 83.4 | 3.2 | 93.4 | 107.0 | 93.8 | 46.0 | 46.6 | 43.7 | 49.1 | 4.8 | 84.9 | 134.8 | 141.7 | 123.1 | 103.7 | 90.5 | 65,9 |
| Eritrea | | 0.5 | 10.6 | 12.2 | 11.4 | 13.3 | 11.4 | 22.7 | 6.9 | 0.4 | 12.6 | 11.7 | 6.4 | 7.6 | 7.8 | 9.2 | 5.9 | 0.4 | 11.6 | 11.9 | 8.9 | 10.4 | 9.5 | 15.2 | 6.4 |
| Ethiopia | | 5.2 | 46.5 | 79.0 | 58.0 | 46.2 | 38.3 | 23.3 | 32.1 | 6.1 | 54.6 | 62.7 | 45.7 | 29.0 | 16.5 | 6.0 | 27.9 | 5.6 | 50.5 | 71.0 | 52.0 | 37.7 | 27.1 | 13.6 | 29.9 |
| Gabon | | 6.0 | 94.3 | 215.0 | 220.5 | 159.5 | 123.9 | 106.9 | 94.9 | 6.5 | 97.7 | 113.3 | 112.1 | 64.1 | 77.6 | 39.2 | 57.8 | 6.3 | 96.0 | 163.8 | 165.7 | 110.7 | 99.5 | 70.0 | 75.9 |
| Ghana | | 2.0 | 29.5 | 77.9 | 101.4 | 131.3 | 138.7 | 185.7 | 45.4 | 2.0 | 25.8 | 57.8 | 53.3 | 59.2 | 62.2 | 78.5 | 27.8 | 2.0 | 27.6 | 67.8 | 77.0 | 94.4 | 98.9 | 127.6 | 36.6 |
| Guinea | | 1.3 | 55.6 | 152.7 | 142.6 | 123.2 | 126.3 | 130.4 | 60.9 | 2.3 | 42.3 | 74.3 | 59.1 | 51.0 | 48.9 | 23.8 | 30.7 | 1.8 | 49.0 | 113.9 | 101.1 | 86.6 | 85.9 | 72.9 | 45.8 |
| Kenya | | 3.2 | 104.2 | 271.4 | 236.8 | 193.8 | 151.2 | 100.6 | 99.4 | 5.0 | 104.0 | 173.8 | 109.0 | 87.8 | 70.2 | 31.6 | 66.4 | 4.1 | 104.1 | 222.9 | 172.8 | 139.5 | 108.5 | 63.3 | 82.8 |
| Liberia | | 2.9 | 48.4 | 144.4 | 170.4 | 98.7 | 66.1 | 33.3 | 50.2 | 2.9 | 54.0 | 107.3 | 111.9 | 62.5 | 31.0 | 38.5 | 39.1 | 2.9 | 51.2 | 126.4 | 142.0 | 80.7 | 48.0 | 36.2 | 44.6 |
| Madagascar | | 2.1 | 59.5 | 140.3 | 196.3 | 181.9 | 207.1 | 143.9 | 73.1 | 3.3 | 62.3 | 109.1 | 104.9 | 86.0 | 91.1 | 50.8 | 49.9 | 2.7 | 60.9 | 124.7 | 148.7 | 131.7 | 144.2 | 93.6 | 61.3 |
| Malawi | | 1.9 | 66.8 | 237.6 | 277.1 | 239.7 | 167.6 | 127.1 | 88.6 | 3.5 | 112.9 | 230.0 | 192.1 | 141.8 | 74.1 | 42.0 | 82.7 | 2.7 | 89.7 | 233.7 | 233.0 | 187.3 | 116.8 | 79.6 | 85.6 |
| Mali | | 0.5 | 17.8 | 76.9 | 104.5 | 114.2 | 109.0 | 80.6 | 33.8 | 0.4 | 15.8 | 36.3 | 37.9 | 28.7 | 35.1 | 14.3 | 14.5 | 0.5 | 16.8 | 56.6 | 70.3 | 68.7 | 68.8 | 43.1 | 23.9 |
| Mauritius | | 0.7 | 11.2 | 10.2 | 22.7 | 32.4 | 31.4 | 66.3 | 16.2 | 0.0 | 8.6 | 5.3 | 4.5 | 5.0 | 8.3 | 15.8 | 5.3 | 0.3 | 9.9 | 7.8 | 13.7 | 18.5 | 19.1 | 37.5 | 10.7 |
| Mozambique | | | 453.5 | 205.0 | 224.2 | 407.0 | 200.0 | 386.9 | 055.0 | | 183.1 | 451.8 | 366.7 | 195.8 | 150.5 | 194.7 | 166.3 | 7.4 | 170.2 | 568.7 | 512.8 | 337.4 | 264.5 | 281.8 | 210.3 |
| Namibia | | 5.7 | 157.5 | 685.6 | 661.0 | 487.8 | 392.9 | 386.9 | 255.3 | 9.0 | 103.1 | 451.8 | 300.7 | | | 194.7 | | 7.4 | 170.2 | 300.7 | 312.0 | | | | |
| Niger (the) | | 0.2 | 23.0 | 81.2 | 94.2 | 86.6 | 96.6 | 56.7 | 31.8 | 0.6 | 9.6 | 24.7 | 28.5 | 29.6 | 24.7 | 11.2 | 10.6 | 0.4 | 16.3 | 52.6 | 60.6 | 57.1 | 58.4 | 31.4 | 21.1 |
| Nigeria | | 0.5 | 17.1 | 34.1 | 27.5 | 28.0 | 21.3 | 26.4 | 14.1 | 0.7 | 17.5 | 23.8 | 18.3 | 16.5 | 12.7 | 7.8 | 10.6 | 0.6 | 17.3 | 28.9 | 22.9 | 22.0 | 16.8 | 16.2 | 12.4 |
| Rwanda | | | | | | | | | | | | | | | | | | | | | | | | | |
| Senegal | | 4.4 | 87.6 | 200.2 | 204.7 | 168.2 | 151.6 | 218.5 | 85.8 | 4.2 | 46.5 | 73.7 | 72.0 | 64.0 | 53.3 | 60.6 | 35.5 | 4.3 | 67.1 | 136.8 | 137.7 | 115.2 | 99.7 | 130.5 | 60.6 |
| Seychelles | | 0.0 | 0.0 | 14.3 | 50.0 | 50.0 | 50.0 | 50.0 | 21.1 | 0.0 | 0.0 | 0.0 | 16.7 | 0.0 | 50.0 | 0.0 | 5.3 | 0.0 | 0.0 | 7.7 | 33.3 | 25.0 | 50.0 | 20.0 | 13.2 |
| Sierra Leone | | 1.4 | 52.9 | 144.5 | 158.6 | 134.5 | 86.5 | 72.8 | 59.6 | 3.6 | 53.7 | 92.3 | 96.7 | 55.9 | 41.5 | 23.0 | 39.9 | 2.5 | 53.3 | 118.0 | 126.8 | 93.6 | 62.4 | 44.8 | 49.5 |
| South Africa | | | | | | | | | 0.0 | | | | | | | | | | | | | | | | |
| Togo | | 1.2 | 20.2 | 61.0 | 70.6 | 7.2 | 57.3 | 63.4 | 22.9 | 1.6 | 23.1 | 38.2 | 24.9 | 26.3 | 25.7 | 27.4 | 15.9 | 1.4 | 21.7 | 49.5 | 47.4 | 17.1 | 40.6 | 43.6 | 19.4 |
| Uganda | | 6.5 | 72.9 | 273.8 | 316.1 | 322.8 | 279.2 | 218.9 | 103.1 | 9.1 | 80.8 | 206.1 | 180.8 | 155.3 | 140.9 | 80.7 | 74.4 | 7.8 | 76.8 | 240.0 | 248.0 | 235.8 | 205.0 | 143.2 | 88.7 |
| United Republic of Tanzania (the) Zimbabwe | | 2.7 | 78.9 | 224.1 | 252.3 | 226.6 | 207.2 | 212.1 | 93.7 | 3.3 | 69.0 | 142.8 | 120.8 | 89.9 | 78.3 | 54.5 | 55.3 | 3.0 | 73.9 | 182.8 | 185.4 | 156.0 | 139.4 | 125.4 | 74.2 |
| | AFR | 2.2 | 41.0 | 97.4 | 100.5 | 87.7 | 73.4 | 66.6 | 41.5 | 2.9 | 41.6 | 69.2 | 56.7 | 43.2 | 33.9 | 21.9 | 29.0 | 2.6 | 41.3 | 83.3 | 78.4 | 64.9 | 52.5 | 41.8 | 35.2 |
| | | | | | | | | | | , | | | | | | | , | | | | | | | | |

AFR - Age and sex distribution of smear-positive TB cases in DOTS areas, 1998 (absolute numbers).

| | | | | MALE | | | | | | | | EMALE | | | | | | | | ALL | | | | |
|--|-------|--------|--------|--------|--------|-------|-------|---------|-------|--------|--------|--------|-------|-------|-------|--------|-------|--------|--------|--------|--------|--------|-------|---------|
| Age groups | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total |
| Angola | 196 | 755 | 719 | 621 | 312 | 119 | 75 | 2 797 | 218 | 888 | 744 | 448 | 187 | 93 | 41 | 2 619 | 414 | 1 643 | 1 463 | 1 069 | 499 | 212 | 116 | 5 416 |
| Benin | 20 | 233 | 367 | 251 | 205 | 113 | 71 | 1 260 | 15 | 189 | 242 | 159 | 65 | 39 | 19 | 728 | 35 | 422 | 609 | 410 | 270 | 152 | 90 | 1 988 |
| Botswana | | | | | | | | | | | | | | | | | | | | | | | | |
| Burkina Faso | 4 | 104 | 270 | 236 | 159 | 89 | 65 | 927 | 9 | 83 | 98 | 86 | 82 | 32 | 14 | 404 | 13 | 187 | 368 | 322 | 241 | 121 | 79 | 1 331 |
| Burundi | 22 | 148 | 259 | 260 | 187 | 50 | 16 | 942 | 24 | 130 | 198 | 118 | 62 | 23 | 8 | 563 | 46 | 278 | 457 | 378 | 249 | 73 | 24 | 1 505 |
| Cameroon | 11 | 132 | 228 | 161 | 66 | 29 | 10 | 637 | 13 | 97 | 123 | 50 | 27 | 18 | 6 | 334 | 24 | 229 | 351 | 211 | 93 | 47 | 16 | 971 |
| Congo (the) | | | | | | | | | | | | | | | | | | | | | | | | |
| Côte d'Ivoire | 72 | 1173 | 1747 | 1471 | 795 | 433 | 273 | 5 964 | 104 | 955 | 1087 | 703 | 347 | 126 | 105 | 3 427 | 176 | 2 128 | 2 834 | 2 174 | 1 142 | 559 | 378 | 9 391 |
| Democratic Republic of the Congo (the) | 455 | 3684 | 5073 | 3578 | 2002 | 997 | 518 | 16 307 | 651 | 4074 | 4536 | 2716 | 1295 | 722 | 272 | 14 266 | 1 106 | 7 758 | 9 609 | 6 294 | 3 297 | 1 719 | 790 | 30 573 |
| Equatorial Guinea | 6 | 30 | 46 | 39 | 29 | 16 | 11 | 177 | 3 | 37 | 31 | 20 | 7 | 5 | 4 | 107 | 9 | 67 | 77 | 59 | 36 | 21 | 15 | 284 |
| Eritrea | 4 | 36 | 30 | 19 | 15 | 8 | 10 | 122 | 3 | 43 | 29 | 11 | 9 | 6 | 5 | 106 | 7 | 79 | 59 | 30 | 24 | 14 | 15 | 228 |
| Ethiopia | 715 | 2643 | 3187 | 1610 | 839 | 429 | 171 | 9 594 | 832 | 3016 | 2434 | 1220 | 519 | 194 | 55 | 8 270 | 1 547 | 5 659 | 5 621 | 2 830 | 1 358 | 623 | 226 | 17 864 |
| Ghana | 71 | 465 | 826 | 741 | 642 | 422 | 400 | 3 567 | 62 | 390 | 623 | 412 | 304 | 212 | 208 | 2 211 | 133 | 855 | 1 449 | 1 153 | 946 | 634 | 608 | 5 778 |
| Guinea | 22 | 409 | 763 | 494 | 271 | 168 | 117 | 2 244 | 37 | 303 | 365 | 202 | 115 | 71 | 25 | 1 118 | 59 | 712 | 1 128 | 696 | 386 | 239 | 142 | 3 362 |
| Kenya | 210 | 3372 | 5477 | 2983 | 1378 | 626 | 382 | 14 428 | 318 | 3315 | 3469 | 1378 | 656 | 324 | 141 | 9 601 | 528 | 6 687 | 8 946 | 4 361 | 2 034 | 950 | 523 | 24 029 |
| Liberia | 18 | 150 | 229 | 158 | 72 | 34 | 11 | 672 | 18 | 164 | 160 | 98 | 45 | 17 | 16 | 518 | 36 | 314 | 389 | 256 | 117 | 51 | 27 | 1 190 |
| Madagascar | 70 | 827 | 1545 | 1420 | 829 | 485 | 282 | 5 458 | 108 | 852 | 1193 | 824 | 430 | 253 | 117 | 3 777 | 178 | 1 679 | 2 738 | 2 244 | 1 259 | 738 | 399 | 9 235 |
| Malawi | 46 | 677 | 1581 | 1158 | 643 | 281 | 151 | 4 537 | 85 | 1131 | 1585 | 867 | 437 | 148 | 63 | 4 316 | 131 | 1 808 | 3 166 | 2 025 | 1 080 | 429 | 214 | 8 853 |
| Mali | 11 | 190 | 482 | 413 | 299 | 201 | 126 | 1 722 | 11 | 167 | 228 | 156 | 84 | 76 | 30 | 752 | 22 | 357 | 710 | 569 | 383 | 277 | 156 | 2 474 |
| Mauritius | 1 | 12 | 10 | 21 | 19 | 10 | 19 | 92 | 0 | 9 | 5 | 4 | 3 | 3 | 6 | 30 | 1 | 21 | 15 | 25 | 22 | 13 | 25 | 122 |
| Mozambique | | | | | | | | | | | | | | | | | | | | | | | | |
| Namibia | 20 | 256 | 791 | 530 | 265 | 139 | 107 | 2 108 | 31 | 294 | 521 | 298 | 113 | 60 | 65 | 1 382 | 51 | 550 | 1 312 | 828 | 378 | 199 | 172 | 3 490 |
| Niger (the) | 3 | 132 | 314 | 218 | 101 | 65 | 26 | 859 | 9 | 52 | 80 | 54 | 32 | 24 | 11 | 262 | 12 | 184 | 394 | 272 | 133 | 89 | 37 | 1 121 |
| Nigeria | 125 | 1798 | 2543 | 1282 | 889 | 451 | 369 | 7 457 | 169 | 1856 | 1808 | 881 | 560 | 298 | 132 | 5 704 | 294 | 3 654 | 4 351 | 2 163 | 1 449 | 749 | 501 | 13 161 |
| Rwanda | | | | | | | | | | | | | | | | | | | | | | | | |
| Senegal | 90 | 781 | 1208 | 856 | 453 | 250 | 215 | 3 853 | 84 | 412 | 447 | 307 | 178 | 98 | 75 | 1 601 | 174 | 1 193 | 1 655 | 1 163 | 631 | 348 | 290 | 5 454 |
| Seychelles | 0 | 0 | 1 | 3 | 2 | 1 | 1 | 8 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 1 | 4 | 2 | 2 | 1 | 10 |
| Sierra Leone | 14 | 226 | 445 | 338 | 191 | 78 | 42 | 1 334 | 36 | 235 | 294 | 217 | 86 | 43 | 17 | 928 | 50 | 461 | 739 | 555 | 277 | 121 | 59 | 2 262 |
| South Africa | | | | | | | | | | | | | | | | | | | | | | | | |
| Togo | 12 | 85 | 175 | 134 | 9 | 46 | 38 | 499 | 16 | 98 | 111 | 49 | 35 | 23 | 20 | 352 | 28 | 183 | 286 | 183 | 44 | 69 | 58 | 851 |
| Uganda | 334 | 1512 | 3672 | 2491 | 1429 | 676 | 428 | 10 542 | 467 | 1682 | 2760 | 1441 | 744 | 395 | 191 | 7 680 | 801 | 3 194 | 6 432 | 3 932 | 2 173 | 1 071 | 619 | 18 222 |
| United Republic of Tanzania (the) | 198 | 2528 | 4910 | 3400 | 1973 | 1112 | 767 | 14 888 | 240 | 2234 | 3243 | 1686 | 835 | 466 | 241 | 8 945 | 438 | 4 762 | 8 153 | 5 086 | 2 808 | 1 578 | 1 008 | 23 833 |
| Zimbabwe | | | | | | | | | | | | | | | | | | | | | | | | |
| AFR | 2 750 | 22 358 | 36 898 | 24 886 | 14 074 | 7 328 | 4 701 | 112 995 | 3 563 | 22 706 | 26 414 | 14 406 | 7 257 | 3 770 | 1 887 | 80 003 | 6 313 | 45 064 | 63 312 | 39 292 | 21 331 | 11 098 | 6 588 | 192 998 |
| % | 2.4 | 19.8 | 32.7 | 22.0 | 12.5 | 6.5 | 4.2 | 100 | 4.5 | 28.4 | 33.0 | 18.0 | 9.1 | 4.7 | 2.4 | 100 | 3.3 | 23.3 | 32.8 | 20.4 | 11.1 | 5.8 | 3.4 | 100 |

AFR - Age and sex distribution of smear-positive TB cases in non-DOTS areas, 1998 (absolute numbers).

| | | | | MALE | | | | | | | F | EMALE | | | | | | | | ALL | | | | |
|---|------|-------|-------|-------|-------|-------|-----|-------|------|-------|-------|-------|-------|-------|-----|-------|------|-------|-------|-------|-------|-------|-----|--------|
| Age groups | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total |
| Algeria | | | | | | | | | | | | | | | | | | | | | | | | |
| Angola | 44 | 160 | 231 | 218 | 158 | 100 | 60 | 971 | 79 | 196 | 226 | 175 | 132 | 76 | 51 | 935 | 123 | 356 | 457 | 393 | 290 | 176 | 111 | 1 906 |
| Burundi | 23 | 153 | 268 | 270 | 132 | 52 | 17 | 915 | 25 | 135 | 123 | 122 | 64 | 24 | 8 | 501 | 48 | 288 | 391 | 392 | 196 | 76 | 25 | 1 416 |
| Cameroon | 4 | 519 | 778 | 626 | 196 | 58 | 25 | 2 206 | 17 | 346 | 472 | 218 | 85 | 35 | 24 | 1 197 | 21 | 865 | 1 250 | 844 | 281 | 93 | 49 | 3 403 |
| Cape Verde | 2 | 9 | 14 | 14 | 6 | 6 | 9 | 60 | 2 | 12 | 4 | 5 | 3 | 5 | 10 | 41 | 4 | 21 | 18 | 19 | 9 | 11 | 19 | 101 |
| Central African Republic (the) | 28 | 205 | 482 | 328 | 157 | 76 | 46 | 1 322 | 67 | 353 | 476 | 217 | 115 | 61 | 26 | 1 315 | 95 | 558 | 958 | 545 | 272 | 137 | 72 | 2 637 |
| Chad Congo (the) Democratic Republic of the Congo (the) | | | | | | | | | | | | | | | | | | | | | | | | |
| Eritrea | | | | | | | | | | | | | | | | | | | | | | | | |
| Gabon | 14 | 93 | 159 | 129 | 76 | 43 | 32 | 546 | 15 | 97 | 85 | 67 | 32 | 30 | 14 | 340 | 29 | 190 | 244 | 196 | 108 | 73 | 46 | 886 |
| Ghana | 12 | 88 | 183 | 172 | 133 | 87 | 87 | 762 | 23 | 93 | 135 | 81 | 62 | 36 | 35 | 465 | 35 | 181 | 318 | 253 | 195 | 123 | 122 | 1 227 |
| Liberia | | | | | | | | | | | | | | | | | | | | | | | | |
| Mali | 2 | 3 | 19 | 15 | 9 | 4 | 4 | 56 | 0 | 6 | 9 | 8 | 4 | 3 | 0 | 30 | 2 | 9 | 28 | 23 | 13 | 7 | 4 | 86 |
| Mozambique | | | | | | | | | | | | | | | | | | | | | | | | |
| Niger (the) | 1 | 86 | 197 | 181 | 133 | 94 | 35 | 727 | 5 | 40 | 80 | 72 | 54 | 22 | 4 | 277 | 6 | 126 | 277 | 253 | 187 | 116 | 39 | 1 004 |
| South Africa | | | | | | | | | | | | | | | | | | | | | | | | |
| Zimbabwe | | | | | | | | | | | | | | | | | | | | | | | | |
| AFF | 130 | 1 316 | 2 331 | 1 953 | 1 000 | 520 | 315 | 7 565 | 233 | 1 278 | 1 610 | 965 | 551 | 292 | 172 | 5 101 | 363 | 2 594 | 3 941 | 2 918 | 1 551 | 812 | 487 | 12 666 |
| % | 1.7 | 17.4 | 30.8 | 25.8 | 13.2 | 6.9 | 4.2 | 100 | 4.6 | 25.1 | 31.6 | 18.9 | 10.8 | 5.7 | 3.4 | 100 | 2.9 | 20.5 | 31.1 | 23.0 | 12.2 | 6.4 | 3.8 | 100 |

AFR - Number of tuberculosis cases notified, 1981-1998

| Country | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
|---|----------------|-----------------|-----------------|-------------|--------------|---------------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|
| Algeria | | 13 916 | 13 681 | 13 133 | 13 832 | 12 917 | 11 212 | 11 325 | 11 039 | 11 607 | 11 332 | 11 428 | 13 345 | 13 345 | 13 507 | | 16 522 | 15 324 |
| Angola | 7 501 | 7 911 | 6 625 | 10 153 | 8 653 | 9 363 | 8 510 | 8 184 | 9 587 | 10 271 | 11 134 | 11 272 | 8 269 | 7 157 | 7 982 | 15 424 | 14 326 | 12 293 |
| Benin | 1 862 | 1 793 | 1 804 | 1 913 | 2 041 | 2 162 | 1 901 | 2 027 | 1 941 | 2 084 | 2 162 | 2 420 | 2 340 | 2 119 | 2 400 | 2 372 | 1 939 | 2 384 |
| Botswana | 2 605 | 2 705 | 2 883 | 3 101 | 2 706 | 2 627 | 3 173 | 2 740 | 2 532 | 2 938 | 3 274 | 4 179 | 4 654 | 4 756 | 5 655 | 6 636 | 6 919 | 4 764 |
| Burkina Faso | 2 391 | 2 265 | 3 061 | 877 | 4 547 | 1 018 | 1 407 | 949 | 1 616 | 1 497 | 1 488 | | 1 443 | 861 | 2 572 | 1 814 | 1 643 | 2 074 |
| Burundi | 643 | 951 | 1 053 | 1 904 | 2 317 | 2 569 | 2 739 | 3 745 | 4 608 | 4 575 | 4 883 | 4 464 | 4 677 | 3 840 | 3 326 | 3 796 | 5 335 | 6 546 |
| Cameroon | 2 236 | 3 765 | 3 445 | 3 338 | 3 393 | 2 138 | 3 878 | 4 982 | 5 521 | 5 892 | 6 814 | 6 803 | 7 064 | 7 312 | 3 292 | 3 049 | 3 952 | 5 022 |
| Cape Verde | 344 | 393 | 230 | 285 | 259 | | 285 | 276 | 210 | 221 | | | | | 303 | 179 | 196 | 205 |
| Central African Republic (the) | 758 | 1 475 | 1 686 | 468 | 520 | 779 | 499 | 814 | 64 | 2 124 | 2 045 | | | | 3 339 | 3 623 | 4 459 | 4 875 |
| Chad | 286 | 127 | 1 977 | 1 430 | 1 486 | 1 285 | 1 086 | 2 977 | 2 572 | 2 591 | 2 912 | 2 684 | 2 871 | 3 303 | 3 186 | 1 936 | | 2 784 |
| Comoros (the) | | | | | | | | 212 | 139 | 140 | 119 | 108 | 129 | 115 | 129 | 140 | | |
| Congo (the) | 1 214 | 3 716 | 4 156 | 2 776 | 2 648 | 3 120 | 3 473 | 3 878 | 4 363 | 591 | 618 | 1 179 | 1 976 | 2 992 | 3 615 | 4 469 | 3 417 | 3 863 |
| Côte d'Ivoire | 4 418 | 5 000 | 6 000 | 6 062 | 5 729 | 6 072 | 6 422 | 6 556 | 6 982 | 7 841 | 8 021 | 9 093 | 9 563 | 14 000 | 11 988 | 13 104 | 13 802 | 14 841 |
| Democratic Republic of the Congo (the) | 8 929 | | | | | 5 043 | 6 343 | | | | 21 135 | 31 400 | 34 319 | | 78 099 | 45 999 | 45 576 | 58 869 |
| Equatorial Guinea | | | | 181 | 17 | 1 | 11 | 20 | 157 | 260 | 331 | 262 | 309 | 356 | 306 | 319 | 366 | 416 |
| Eritrea | | | | | | | | | | 3 699 | | 4 386 | 11 664 | 15 505 | 21 453 | 5 220 | 8 321 | 7 789 |
| Ethiopia | 42 423 | 52 403 | 56 824 | 65 045 | 71 731 | 80 846 | 85 867 | 95 521 | 80 795 | 88 634 | 60 006 | 60 006 | | 99 329 | 26 034 | 183 375 | 59 105 | 69 472 |
| Gabon | 796 | 761 | 752 | 654 | 855 | 769 | 864 | 721 | 912 | 917 | 906 | 926 | 972 | 1 034 | 1 115 | 951 | 1 434 | 1 380 |
| Gambia (the) | 58 | | | | | | | | | | | | | | 1 023 | 1 242 | 1 357 | |
| Ghana | 4 041 | 4 345 | 2 651 | 1 935 | 3 235 | 3 925 | 5 877 | 5 297 | 6 017 | 6 407 | 7 136 | 7 044 | 8 569 | 17 004 | 4 131 | 10 449 | 10 745 | 10 173 |
| Guinea | 1 884 | 1 469 | 832 | 1 203 | 1 317 | 1 128 | 1 214 | 1 740 | 1 869 | 1 988 | 2 267 | 2 941 | 3 167 | 3 300 | 3 465 | 4 286 | 4 326 | 4 783 |
| Guinea-Bissau | 465 | 205 | 376 | 368 | 530 | 1 310 | 752 | 778 | 1 362 | 1 163 | 1 246 | 1 059 | 1 558 | 1 647 | 1 748 | 1 728 | | |
| Kenya | 10 027 | | 11 966 | | 10 460 | 10 022 | 10 515 | 10 957 | 12 592 | 11 788 | 12 320 | 14 599 | 20 451 | 22 930 | 28 142 | 34 980 | 39 738 | 48 936 |
| Lesotho | 3 830 | 4 932 | 3 443 | 2 923 | 2 927 | 21 | 225 | 2 346 | 2 463 | 2 525 | 2 994 | 3 327 | 3 384 | 4 334 | 4 846 | 4 361 | 5 481 | |
| Liberia | 1 002 | 835 | 885 | | 425 | 232 | 384 | 894 | | | | 1 948 | 1 766 | 1 764 | 1 393 | 840 | | 1 753 |
| Madagascar | 7 464 | 3 573 | 3 588 | 8 673 | 3 220 | 3 717 | 4 007 | 4 393 | 5 417 | 6 261 | 6 015 | 8 126 | 9 855 | 10 671 | 21 616 | 12 718 | | 14 661 |
| Malawi | 5 033 | 4 411 | 4 707 | 4 404 | 5 334 | 6 301 | 7 581 | 8 247 | 9 431 | 12 364 | 14 322 | 15 183 | 17 105 | 19 496 | 19 155 | 20 630 | 20 676 | 22 764 |
| Mali | 933 | 187 | 532 | 1 872 | 1 621 | 1 851 | 2 534 | 2 578 | 1 626 | 2 933 | 2 631 | 3 113 | 3 204 | 3 075 | 3 087 | 3 655 | 5 022 | 4 142 |
| Mauritania | 9 427 | 2 327 | 2 333 | 3 977 | 4 406 | 2 257 | 3 722 | 3 928 | 4 040 | 5 284 | 3 064 | 4 316 | 3 996 | 4.40 | 3 849 | | 3 788 | 405 |
| Mauritius | 157 | 121 | 152 | 118 | 111 | 119 | 117 | 114 | 129 | 119 | 134 | 130 | 159 | 149 | 153 | | | 135 |
| Mozambique | 6 984 | 5 787 | 5 937 | 5 204 | 5 645 | 8 263 | 10 996 | 13 863 | 15 958 | 15 899 | 16 609 | 15 085 | 16 588 | 17 158 | 17 882 | 18 443 | 18 842 | 19 672 7 972 |
| Namibia Niger (the) | 2 871 | 754 | 673 | 665 | 4 840 698 | 4 427 570 | 3 640 556 | 2 815 631 | 3 703 608 | 2 671 5 200 | 2 500 | 1 756 | 5 500 626 | 3 784 | 1 540 1 980 | 6 773 | 6 004 3 812 | 3 470 |
| | | | | | | | | | | | 40.000 | 44.000 | | | | 04.005 | | |
| Nigeria | 10 838 | 10 949 | 10 212 | 11 439 | 14 937 | 14 071 | 19 723 | 25 700 | 13 342 | 20 122 | 19 626 3 200 | 14 802 | 11 601 | 8 449 | 13 423 3 054 | 24 065 3 535 | 16 660 4 710 | 20 249 6 112 |
| Rwanda | 1 386 37 | 40 | 1 364 | 1 419 49 | 1 327 40 | 2 460 8 | 3 287 55 | 4 145 13 | 4 741 | 6 387 17 | 120 | | 97 | 41 | 3 054 | 3 333 | 4/10 | 0 112 |
| Sao Tome and Principe | | | 59 | 49 | | _ | | | | | | | | | | | | |
| Senegal | 2 573 | 1 612 | 2 417 | | 1 065 | 927 | 6 145 | 5 611 | 5 965 | 4 977 | 6 781 | 7 408 | 6 841 | 6 913 | 7 561 | 8 525 | 8 232 | 8 475 |
| Seychelles Sierra Leone | 0 847 | 16 889 | 16 293 | 10 816 | 10 865 | 24 358 | 14 130 | 10 120 | 6 | 41 632 | 1 466 | 1 665 | 5 2 691 | 2 564 | 9 1 955 | 15 3 241 | 20 3 160 | 11 3 270 |
| | | | | | | | | | 68 075 | 80 400 | 77 652 | 82 539 | 89 786 | 90 292 | 86 924 | 91 578 | 105 169 | 128 415 |
| South Africa | 59 943 143 | 64 115 3 059 | 62 556 1 955 | 62 717 | 59 349 | 55 013 | 57 406 1 098 | 61 486 1 352 | 1 394 | 60 400 | 1 531 | 02 339 | 1 458 | 90 Z9Z | 2 055 | 3 893 | 100 109 | 120 415 |
| Swaziland Togo | 143 | 3 059 204 | 1 955 | 343 | 745 | 596 | 1 184 | 1 071 | 940 | 1 324 | 1 243 | 1 223 | 1 005 | 1 137 | 3 031 | 1 654 | | 1 212 |
| | | | | | | | | | | | | | | 26 994 | 25 476 | 27 356 | 27 725 | 29 228 |
| Uganda | 1 170 6 964 | 497 11 748 | 2 029 11 783 | 12 092 | 13 698 | 1 392 15 452 | 1 464 16 920 | 3 066 18 206 | 1 045 19 262 | 14 740 22 249 | 19 016 25 210 | 20 662 28 462 | 21 579 31 460 | 26 994 34 799 | 25 476 39 847 | 44 416 | 46 433 | 51 231 |
| United Republic of Tanzania (the) Zambia | 6 070 | 6 519 | 6 948 | 6 500 | 6 747 | 7 909 | 11 525 | 12 876 | 14 239 | 22 902 | 23 373 | 25 732 | 36 889 | 35 222 | 12 744 | 40 417 | 70 400 | 01201 |
| Zimbabwe | 4 051 | 4 577 | 3 881 | 5 694 | 4 759 | 5 233 | 5 848 | 6 002 | 6 822 | 9 132 | 11 710 | 16 237 | 20 125 | 23 959 | 30 831 | 35 735 | 43 762 | 47 277 |
| | 4 031 | 7 0, 7 | 0 001 | 0 004 | | 0 200 | 2 2 .0 | | | | | | | | | | | 211 |
| Other territories St. Helena | | | | | | | | | | | | | | | | | | |
| | 224 730 | 230 352 | 245 939 | 243 741 | 269 045 | 278 295 | 314 589 | 343 166 | 334 084 | 403 407 | 399 346 | 427 967 | 423 060 | 511 706 | 529 221 | 696 941 | 562 974 | 646 842 |
| Total | | | | | | | | | | | | | | | | | | |
| Total No. of countries reporting % of countries reporting | 41 87 | 38 81 | 40 85 | 36 77 | 40 85 | 41 87 | 43 91 | 43 91 | 40 85 | 42 89 | 40 85 | 37 79 | 41 87 | 37 79 | 45 96 | 41 87 | 36 77 | 38 81 |

AFR - Case notification rates (per 100 000 population), 1981-1998

| Country | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
|---|----------------|---------------|--------------|--------------|--------------|--------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|-------------------|----------------|----------------|----------------|----------------|
| Algeria | | 69.7 | 66.4 | 61.8 | 63.2 | 57.4 | 48.5 | 47.7 | 45.4 | 46.5 | 44.4 | 43.7 | 49.8 | 48.7 | 48.1 | | 56.2 | 50.9 |
| Angola | 104.0 | 106.9 | 87.2 | 130.2 | 108.1 | 113.9 | 100.7 | 94.2 | 107.2 | 111.3 | 116.7 | 114.1 | 80.8 | 67.5 | 72.7 | 136.0 | 122.3 | 101.7 |
| Benin | 52.3 | 48.9 | 47.7 | 49.1 | 50.8 | 52.2 | 44.5 | 46.1 | 42.9 | 44.7 | 45.1 | 49.1 | 46.3 | 40.8 | 45.0 | 43.3 | 34.4 | 41.2 |
| Datawasa | 277.4 | 278.1 | 286.1 | 297.1 | 250.4 | 234.9 | 274.3 | 229.1 | 204.9 | 230.2 | 248.6 | 307.7 | 332.8 | 330.9 | 383.6 | 439.9 | 449.1 | 303.4 |
| Botswana Burkina Faso | 33.7 | 31.1 | 41.0 | 11.4 | 57.7 | 12.6 | 16.9 | 11.1 | 18.3 | 16.5 | 16.0 | 00111 | 14.6 | 8.5 | 24.7 | 16.9 | 14.9 | 18.3 |
| Burundi | 15.2 | 21.8 | 23.5 | 41.3 | 48.9 | 52.7 | 54.6 | 72.5 | 86.8 | 83.9 | 87.1 | 77.6 | 79.3 | 63.7 | 54.0 | 60.6 | 83.9 | 101.4 |
| | 04 | | | | 040 | 20.8 | 36.8 | 45.0 | 40.5 | 51.4 | 57.8 | 56.1 | 56.6 | 57.0 | 25.0 | 22.5 | 28.4 | 35.1 |
| Cameroon | 25.1 117.6 | 41.1 132.7 | 36.6 76.6 | 34.4 93.5 | 34.0 83.6 | 20.8 | 88.7 | 45.9 84.3 | 49.5 62.8 | 64.8 | 0.10 | 50.1 | 30.0 | 57.0 | 79.6 | 46.0 | 49.2 | 50.2 |
| Cape Verde Central African Republic (the) | 32.0 | 60.8 | 67.9 | 18.4 | 19.9 | 29.2 | 18.2 | 29.0 | 2.2 | 72.2 | 67.9 | | | | 101.6 | 108.0 | 130.4 | 139.9 |
| Central Amean Republic (tre) | | | | | | | | | | | | | | | | | | |
| Chad | 6.2 | 2.7 | 40.7 | 28.7 | 29.0 | 24.5 | 20.3 | 54.4 | 46.0 | 45.1 | 49.2 | 44.0 | 45.5 | 50.7 | 47.5 | 28.1 22.5 | | 38.3 |
| Comoros (the) | 70.7 | 210.4 | 228.8 | 148.6 | 137.8 | 157.7 | 170.6 | 42.6 185.1 | 27.1 202.3 | 26.6 26.6 | 22.0 27.1 | 19.4 50.2 | 22.5 81.7 | 19.5 120.2 | 21.3 141.2 | 169.7 | 126.1 | 138.7 |
| Congo (the) | 70.7 | 210.4 | 220.0 | 140.0 | 137.0 | 157.7 | 170.0 | 100.1 | 202.3 | 20.0 | | | | | | | | |
| Côte d'Ivoire | 51.9 | 56.5 | 65.3 | 63.6 | 58.0 | 59.4 | 60.8 | 60.1 | 62.0 | 67.4 | 66.7 | 73.2 | 74.6 | 106.1 | 88.6 | 94.8 | 98.1 | 103.8 |
| Democratic Republic of the Congo (the) | 32.0 | | | | | 15.4 | 18.8 | | 45.5 | 70.0 | 54.4 | 77.5 | 81.2 | 01.5 | 171.9 | 98.3 77.9 | 95.0 87.1 | 119.8 96.6 |
| Equatorial Guinea | | | | 61.6 | 5.5 | 0.3 | 3.3 | 5.9 | 45.5 | 73.9 | 92.0 | 71.0 | 81.5 | 91.5 | 76.6 | 77.9 | 07.1 | 90.0 |
| Eritrea | | | | | | | | | | 128.0 | | 147.5 | 385.3 | 500.6 | 673.2 | 158.2 | 242.4 | 217.7 |
| Ethiopia | 113.9 | 137.5 | 145.6 | 162.5 | 174.3 | 190.7 | 196.3 | 211.5 | 173.3 | 184.3 | 121.1 | 117.6 | | 184.2 | 47.0 | 322.9 | 101.5 | 116.5 |
| Gabon | 11 1 .6 | 103.6 | 99.4 | 83.9 | 106.5 | 92.9 | 101.2 | 81.9 | 100.5 | 98.1 | 94.1 | 93.5 | 95.4 | 98.7 | 103.5 | 85.9 | 126.1 | 118.3 |
| Gambia (the) | 8.8 | | | | | | | | | | | | | | 92.1 | 108.0 | 114.1 | |
| Ghana | 36.2 | 37.5 | 22.1 | 15.5 | 25.0 | 29.4 | 42.6 | 37.2 | 41.0 | 42.4 | 45.7 | 43.7 | 51.5 | 99.2 | 23.4 | 57.6 | 57.6 | 53.1 |
| Guinea | 41.4 | 31.6 | 17.5 | 24.7 | 26.4 | 22.1 | 23.2 | 32.4 | 33.7 | 34.5 | 37.6 | 46.4 | 47.6 | 47.5 | 48.4 | 58.9 | 59.1 | 65.2 |
| Guinea-Bissau | 56.9 | 24.6 | 44.3 | 42.7 | 60.5 | 146.6 | 82.5 | 83.5 | 143.0 | 119.5 | 125.3 | 104.2 | 150.0 | 155.1 | 161.0 | 155.6 | | |
| Kenya | 58.1 | | 64.6 | | 52.6 | 48.7 | 49.4 | 49.7 | 55.2 | 50.1 | 50,7 | 58.2 | 79.2 | 86.4 | 103.4 | 125.6 | 139.7 | 168.7 |
| Lesotho | 277.4 | 348.3 | 237.1 | 196.4 | 191.8 | 1.3 | 14.0 | 142.8 | 146.4 | 146.6 | 169.9 | 184.6 | 183.7 | 230.1 | 251.6 | 221.3 | 271.9 | |
| Liberia | 51.8 | 42.0 | 43.3 | | 19.4 | 10.1 | 15.9 | 35.6 | | | | 82.5 | 80.1 | 84.1 | 66.6 | 38.2 | | 65.8 |
| Madagascar | 82.0 | 38.2 | 37.4 | 88.0 | 31.8 | 35.8 | 37.5 | 40.1 | 48.0 | 53.8 | 50.1 | 65.4 | 76.6 | 80.2 | 157.3 | 89.7 | | 97.4 |
| Malawi | 79.2 | 67.6 | 70.2 | 63.5 | 73.6 | 82.5 | 93.5 | 95.9 | 104.5 | 132.4 | 150.6 | 158.6 | 178.6 | 203.3 | 198.1 | 209.8 | 205.4 | 220.0 |
| Mali | 13.2 | 2.6 | 7.1 | 24.3 | 20.5 | 22.8 | 30.6 | 30.4 | 18.8 | 33.2 | 29.1 | 33.6 | 33.8 | 31.7 | 31.0 | 35.9 | 48.1 | 38.7 |
| Mauritania | 592.6 | 142.6 | 139.3 | 231.3 | 249.5 | 124.4 | 199.6 | 205.0 | 205.0 | 260.8 | 147.1 | 201.5 | 181.4 | | 165.2 | | 153.9 | |
| Mauritius | 16.1 | 12.2 | 15.2 | 11.7 | 10.9 | 11.6 | 11.3 | 11.0 | 12.3 | 11.3 | 12.6 | 12.0 | 14.6 | 13.5 | 13.7 | | | 11.8 |
| Mozambique | 56.2 | 45.4 | 45.4 | 39.0 | 41.7 | 60.5 | 80.2 | 100.8 | 114.8 | 112.0 | 113.2 | 98.6 | 103.5 | 102.5 | 102.8 | 102.7 | 102.2 | 104.2 |
| Mozambique Namibia | 50.2 | 40.4 | 40.4 | 55.0 | 410.9 | 365.8 | 292.7 | 220.3 | 282.0 | 197.9 | 180.2 | 123.2 | 375.5 | | 99.8 | 427.9 | 370.2 | 480.4 |
| Niger (the) | 49.7 | 12.6 | 10.9 | 10.4 | 10.6 | 8.4 | 7.9 | 8.7 | 8.1 | 67.3 | | | 7.3 | 42.8 | 21.6 | | 39.0 | 34.4 |
| | 45.4 | 15.0 | 142 | 15.5 | 19.7 | 18.0 | 24.6 | 31.2 | 15.7 | 23.1 | 22.0 | 16.1 | 12.3 | 8.8 | 13.6 | 23.7 | 16.0 | 19.0 |
| Nigeria Rwanda | 16.1 26.0 | 15.8 | 14.3 24.1 | 24.3 | 21.9 | 38.9 | 49.6 | 60.2 | 67.4 | 91.4 | 47.7 | 10.1 | 12.0 | 0.0 | 58.1 | 64.6 | 79.0 | 92.6 |
| Sao Tome and Principe | 38.5 | 40.4 | 58.4 | 47.6 | 37.7 | 7.4 | 49.5 | 11.5 | | 14.3 | 99.2 | | 76.4 | 31.5 | | | | |
| , | | | 40.4 | | 40.7 | 44.4 | 04.4 | 80.9 | 83.6 | 67.9 | 90.2 | 96.0 | 86.4 | 85.1 | 90.8 | 99.7 | 93.8 | 94.1 |
| Senegal | 45.2 | 27.5 25.0 | 40.1 25.0 | 15.4 | 16.7 15.4 | 14.1 36.4 | 91.1 20.9 | 14.7 | 8.7 | 58.6 | 90.2 | 90.0 | 6.9 | 00.1 | 12.3 | 20.3 | 26.7 | 14.5 |
| Seychelles Sierra Leone | 25.7 | 26.4 | 8.5 | 23.3 | 24.1 | 9.8 | 3.5 | 3.1 | 0.7 | 15.8 | 36.3 | 41.0 | 65.9 | 62.2 | 46.7 | 75.6 | 71.5 | 71.6 |
| | | | | | | | | | | | 000.0 | 000.4 | 0407 | 245.4 | 222.0 | 240.2 | 274.2 | 326.3 |
| South Africa | 212.7 | 222.6 | 212.5 | 208.5 | 193.2 | 175.4 | 179.3 159.4 | 188.2 190.6 | 204.2 190.7 | 236.4 | 223.8 197.4 | 233.1 | 248.7 177.2 | 245.4 | 232.0 235.5 | 240.2 433.3 | 271.3 | 320.3 |
| Swaziland | 24.8 | 514.6 7.4 | 319.4 6.1 | 11.7 | 24.6 | 19.1 | 36.9 | 32.4 | 27.6 | 37.7 | 34.4 | 32.8 | 26.2 | 28.8 | 74.7 | 39.6 | | 27.6 |
| Togo | 4.7 | | | 11.7 | 24.0 | | | | | | | | | | | | 400.5 | |
| Uganda | 8.7 | 3.6 | 14.4 | | | 9.2 | 9.5 | 19.5 | 6.5 | 89.6 | 112.6 | 118.9 | 120.7 | 146.7 | 134.5 | 140.5 | 138.6 147.8 | 142.2 159.6 |
| United Republic of Tanzania (the) | 36.3 | 59.3 | 57.6 | 57.3 | 62.9 | 68.8 | 73.0 | 76.2 | 78.1 201.7 | 87.4 316.4 | 95.7 314.9 | 104.4 338.1 | 111.6 472.7 | 119.7 440.4 | 133.2 155.5 | 144.7 481.8 | 147.8 | 0.801 |
| Zambia | 103.1 | 108.3 | 113.1 | 103.6 | 105.3 | 120.6 | 171.6 | 187.0 | 201.7 | 310.4 | 314.9 | JJ0. I | 412.1 | 44 0.4 | | | | |
| Zimbabwe | 55.1 | 60.3 | 49.5 | 70.2 | 56.7 | 60.3 | 65.0 | 64.5 | 71.1 | 92.6 | 115.9 | 157.4 | 191.5 | 224.0 | 283.6 | 323.5 | 390.2 | 415.5 |
| Other territories | | | | | | | | | | | | | | | | | | |
| St. Helena | | | 61.5 | | 60.0 | 60.7 | 70.0 | 74.2 | 70.3 | 82.5 | 79.5 | 82.9 | 79.8 | 94.0 | 94,8 | 121.7 | 95.9 | 107.5 |
| AFR | 59.3 | 59.1 | 61.3 | 59.0 | 63.3 | 63.7 | 70.0 | 74.2 | 70.3 | 8∠.5 | 79.5 | 5∠.9 | 79.8 | 84.0 | 94.6 | 121.7 | 20.8 | 107.3 |

AFR - New smear-positive cases

| AFR - New smear-positive cases | | | Number o | f cases | | | | Rate | per 100 000 | populatio | n) | |
|--|--------|---------|----------|---------|---------|---------|-------|-------|-------------|-----------|-------|-------|
| Country | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
| Algeria | | 6 793 | 5 735 | | 7 740 | 7 462 | | 24.8 | 20.4 | | 26.3 | 24.8 |
| Angola | 4 874 | 4 337 | 5 951 | 8 016 | 8 201 | 7 350 | 47.6 | 40.9 | 54.2 | 70.7 | 70.0 | 60.8 |
| Benin | 1 653 | 1 618 | 1 839 | 1 868 | 1 939 | 1 988 | 32.7 | 31.1 | 34.5 | 34.1 | 34.4 | 34.4 |
| Botswana | 1 508 | 1 668 | 1 903 | 2 393 | 2 442 | 2 826 | 107.8 | 116.0 | 129.1 | 158.6 | 158.5 | 180.0 |
| urkina Faso | | 561 | 1 028 | 1 381 | 1 126 | 1 331 | | 5.5 | 9.9 | 12.9 | 10.2 | 11.8 |
| urundi | 1 861 | 1 527 | 1 121 | 1 533 | 2 022 | 2 782 | 31.6 | 25.3 | 18.2 | 24.5 | 31.8 | 43.1 |
| cameroon | 2 316 | 1 883 | 2 896 | 2 312 | 3 548 | 4 374 | 18.6 | 14.7 | 22.0 | 17.1 | 25.5 | 30.6 |
| ape Verde | | | 111 | 117 | 103 | 104 | | | 29.2 | 30.0 | 25.8 | 25.5 |
| entral African Republic (the) | | | 1 794 | 1 992 | 2 267 | 2 637 | | | 54.6 | 59.4 | 66.3 | 75.7 |
| had | | | 2 002 | 870 | | | | | 29.8 | 12.6 | | |
| omoros (the) | | | 105 | 111 | | | | | 17.3 | 17.8 | | |
| longo (the) | | 1 691 | 2 013 | 2 505 | 1 984 | 2 044 | | 67.9 | 78.6 | 95.1 | 73.2 | 73.4 |
| ôte d'Ivoire | 7 012 | | 8 254 | 8 927 | 9 093 | 9 850 | 54.7 | | 61.0 | 64.6 | 64.7 | 68.9 |
| Democratic Republic of the Congo (the) | 14 924 | | 20 084 | 24 125 | 25 183 | 33 419 | 35.3 | | 44.2 | 51.6 | 52.5 | 68.0 |
| quatorial Guinea | | | 219 | 209 | 226 | 284 | | | 54.8 | 51.0 | 53.8 | 65.9 |
| intrea | | | | | 109 | 223 | | | | | 3.2 | 6.2 |
| Ethiopia | | 5 752 | 9 040 | 15 694 | 15 957 | 18 864 | | 10.7 | 16.3 | 27.6 | 27.4 | 31.6 |
| Sabon | | 395 | 486 | 263 | 577 | 889 | | 37.7 | 45.1 | 23.8 | 50.7 | 76.2 |
| Sambia (the) | | | 778 | 743 | 820 | | | | 70.1 | 64.6 | 68.9 | |
| Shana | | 5 778 | 2 638 | 6 474 | 7 287 | 7 005 | | 33.7 | 14.9 | 35.7 | 39.1 | 36.6 |
| Guinea | 2 082 | 2 158 | 2 263 | 2 844 | 2 981 | 3 362 | 31.3 | 31.1 | 31.6 | 39.1 | 40.7 | 45.8 |
| suinea-Bissau | | | 956 | 922 | | | | | 88.0 | 83.0 | | |
| enya | 10 149 | 11 324 | 13 934 | 16 978 | 19 040 | 24 029 | 39.3 | 42.7 | 51.2 | 61.0 | 66.9 | 82.8 |
| esotho | 1 405 | 1 330 | 1 361 | 1 788 | 2 398 | | 76.3 | 70.6 | 70.6 | 90.7 | 119.0 | |
| iberia | 1 547 | | 1 154 | 668 | | 1 190 | 70.2 | | 55.2 | 30.4 | | 44.6 |
| ladagascar | 6 881 | 7 366 | 8 026 | 8 456 | | 9 639 | 53.5 | 55.4 | 58.4 | 59.6 | | 64.0 |
| alawi | | 5 988 | 6 293 | 6 703 | 7 587 | 8 853 | | 62.4 | 65.1 | 68.2 | 75.4 | 85.6 |
| fali | | 1 740 | 1 866 | 2 173 | 3 178 | 2 558 | | 17.9 | 18.8 | 21.3 | 30.5 | 23.9 |
| fauritania | | | 2 074 | | 2 519 | | | | 89.0 | | 102.4 | |
| fauritius (| | | 131 | | | 108 | | | 11.8 | | | 9.5 |
| Mozambique | 9 526 | 9 677 | 10 566 | 10 478 | 11 116 | 12 116 | 59.5 | 57.8 | 60.8 | 58.4 | 60.3 | 64.2 |
| lamibia | | | 697 | 2 820 | 2 674 | 3 490 | | | 45.2 | 178.2 | 164.9 | 210.3 |
| liger (the) | 463 | 1 865 | 1 492 | | 2 779 | 2 127 | 5.4 | 21.1 | 16.3 | | 28.5 | 21.1 |
| ligeria | 1 723 | | 9 476 | 15 704 | 11 235 | 13 161 | 1.8 | | 9.6 | 15.5 | 10.8 | 12.4 |
| Rwanda | | | 1 840 | 2 034 | 2 820 | 4 417 | | | 35.0 | 37.1 | 47.3 | 66.9 |
| ao Tome and Principe | | | | | | | | | | | | |
| enegal | | 4 599 | 5 421 | 5 940 | 5 340 | 5 454 | | 56.6 | 65.1 | 69.5 | 60.9 | 60.6 |
| eychelles | 2 | | 6 | 9 | 11 | 10 | 2.8 | | 8.2 | 12.2 | 14.7 | 13.2 |
| ierra Leone | | 1 408 | 1 454 | 2 234 | 2 296 | 2 262 | | 34.2 | 34.7 | 52.1 | 51.9 | 49.5 |
| outh Africa | | | 1 408 | 37 178 | 55 000 | 82 293 | | | 3.8 | 97.5 | 141.9 | 209.1 |
| waziland | | | 660 | 2 226 | | | | | 75.6 | 247.8 | | |
| ogo | 545 | | 887 | 913 | | 932 | 14.2 | | 21.8 | 21.9 | | 21.2 |
| ganda | 11 949 | 14 763 | 13 678 | 15 175 | 17 268 | 18 222 | 66.8 | 80.2 | 72.2 | 78.0 | 86.3 | 88.7 |
| nited Republic of Tanzania (the) | | | 19 955 | 21 472 | 22 010 | 23 726 | | | 66.7 | 69.9 | 70.1 | 73.9 |
| ambia | | 9 620 | 8 577 | 12 072 | | | | 120.3 | 104.7 | 143.9 | | |
| imbabwe | 5 331 | | 8 965 | 11 965 | 14 512 | 14 492 | 50.7 | | 82.5 | 108.3 | 129.4 | 127.4 |
| Other territories | | | | | | | | | | | | |
| St. Helena Grand Total | 85 751 | 103 841 | 191 137 | 260 285 | 275 388 | 335 873 | 16.2 | 19.1 | 34.2 | 45.4 | 46.9 | 55.8 |
| Jianu iolai | 63 /31 | 103 041 | 101 131 | 200 203 | 213 300 | 000 010 | | 10.1 | V-7.2 | 70.7 | 40.0 | JJ.0 |

Notes

Chad No report submitted; minimal official notification data obtained by other means.

Congo (the) Country at war. Only 36/80 expected quarterly reports were received at national level, often incomplete. Cohort analysis of treatment outcomes was not possible.

Ethiopia Treatment outcomes are from 3 quarters only.

Kenya The numerator of reported treatment success refers to 16 095 non-nomadic smearpositive cases registered on short-course chemotherapy, but excludes 1 877 nomadic cases. Calculated treatment success is therefore too low.

Rwanda Increase in notifications partly due to increased case-finding activity in prisons.

Zimbabwe Began DOTS in 1998, so treatment outcomes for DOTS areas are not yet available.

The Americas

American Region – Summary of TB control policies

| | | | | | DOTS | Technical E | lements | | |
|----------------------------------|--|---------------------------------|-----------------------|---------------------------------|------------------|-------------|-----------------------|---|--------------------------------------|
| Country | Category of the country as of 31/12/97 | National manual ¹ | Training ² | Use of microscopy for diagnosis | SCC ³ | DOT⁴ | Drug availability⁵ | Recording and reporting system ⁶ | DOTS newly implemented in 1998 |
| Anguilla | 0 | | | | | | | | |
| Antigua and Barbuda | 0 | | | | | | | | |
| Argentina | 3 | | | | | | | | |
| Bahamas (the) | 1 | | | | | | | | Х |
| Barbados | 1 | | | | | | | | |
| Belize | 1 | | | | | | | | |
| Bermuda | 0 | | | | | | | | |
| Bolivia | 3 | | | | | | | | |
| Brazil | 2 | | | | | | | | Х |
| British Virgin Islands | 0 | | | | | | | | |
| Canada | 0 | | | | | | | | |
| Cayman Islands | 5 | | | | | | | | |
| Chile | 4 | | | | | | | | |
| Colombia | 4 | | | | | | | | X |
| Costa Rica | 1 | | | | | | | | |
| Cuba | 4 | | | | | | | | |
| Dominica | 2 | | | | | | | | X |
| Dominican Republic (the) | 1 | | | | | | | | |
| Ecuador | 3 | | | | | | | | |
| El Salvador | 3 | | | | | | | | |
| Grenada | 5 | | | | | | | | |
| Guatemala | 4 | | | | | | | | |
| Guyana | 1 | | | | | | | | |
| Haiti | 2 | | | | | | | | |
| Honduras | 2 | | | | | | | | X |
| Jamaica | 4 | | | | | | | | |
| Mexico | 3 | | | | | | | | |
| Montserrat | 5 | | | | | | | | - |
| Netherlands Antilles | 0 | | | | | | | | |
| Nicaragua | 4 | | | | | | | | |
| Panama | 2 | | | | | | | | |
| Paraguay | <u>2</u> | | | | | | | | |
| Peru | 4 | | | | | | | | |
| Puerto Rico | 4 | | | | | | | | |
| Saint Kitts and Nevis | 4 | | | | | | | | |
| Saint Lucia | 3 | | | | | | | | |
| Saint Vincent and the Grenadines | | | | | | | | | |
| Suriname | 1 | | | | | | | | |
| Trinidad and Tobago | <u> </u> | | | | | | | | |
| Turks and Caicos Islands | 0 | | | | | | | | |
| United States of America (the) | 4 | | | | | | _ | | |
| | 0 | | | | | | | | |
| United States Virgin Islands | | | | | | | _ | | |
| Uruguay | 4 | | | | | | | | |
| Venezuela | 4 | | | | | | | | |

- Presence of national manual, or a document issued by the government or an authorized scientific body, including policy recommendations endorsed by WHO "WHO standard" training course on management of TB control programmes has been carried out within the past two years; or training materials endorsed by WHO or IUATLD
- 3 Short course chemotherapy

- 5 Short Course distributerapy
 4 Directly observed treatment
 5 A regular supply system of all essential anti-tuberculosis drugs and diagnostic materials
 6 Presence of WHO/IUALTD recommended recording and reporting system showing assessment of treatment results

dark pink fully implemented (more than 90% of country)

light pink implemented in part of country

not implemented grey white unknown

| | | Cou | intry l | nformatio | on (19 | 98) | | | | WH | O TB Co | ntrol | Strateg | y (DOT | S) | |
|------------------------------|-------------|----------|----------|-----------|--------|--------------------|------------------|-------|------------|-------|-------------|-------|-----------------|---------|-------|-----------------------|
| · | | | | | | | | | | | Cove | erage | | | | % new |
| Countries | | | Notified | Cases | | New ss+ | % case | Cate- | Populatio | n | Notified ca | ases | % | New ss+ | | ss+ out of all new |
| | Population | All type | s | New ss | + | cases estimated | detection of new | gory | No. | (%) | No. | Rate | cases out of | notific | | pulm. |
| | | No. | Rate | No. | Rate | Colimated | ss+ cases | | | | | | all cases | No. | Rate | cases |
| | а | ь | С | d | е | f | d/f | g | h | h/a | i | j | k | 1 | m | n |
| Antigua and Barbuda | 67 000 | | | | | 2 | | 0 | | | | | | | | |
| Argentina | 36 123 428 | 12 276 | 34.0 | 5 186 | 14.4 | 8 970 | 57.8 | 3 | 10 548 041 | 29.2 | 1 277 | 12.1 | 10.4 | 573 | 5.4 | 55.2 |
| Bahamas (the) | 296 110 | 75 | 25.3 | 28 | 9.5 | 72 | 38.9 | 1 | | | | | | | | |
| Barbados | 268 106 | 7 | 2.6 | 4 | 1.5 | 16 | 25.0 | 1 | | | | | | | | |
| Belize | 229 796 | | | | | 48 | | 1 | | | | | | | | |
| Bolivia | 7 957 253 | 10 132 | 127.3 | 6 750 | 84.8 | 9 057 | 74.5 | 3 | 4 535 634 | 57.0 | 10 132 | 223.4 | 100.0 | 6 750 | 148.8 | 78.9 |
| Brazil | 165 850 620 | 84 194 | 50.8 | 38 809 | 23.4 | 55 160 | 70.4 | 2 | 4 975 519 | 3.0 | 4 132 | 83.0 | 4.9 | 2 221 | 44.6 | 62.4 |
| Canada | 30 562 524 | | | | | 930 | | 0 | | | | | | | | |
| Chile | 14 823 614 | 3 668 | 24.7 | 1 576 | 10.6 | 1 927 | 81.8 | 4 | 14 823 614 | 100.0 | 3 668 | 24.7 | 100.0 | 1 576 | 10.6 | 61.8 |
| Colombia | 40 803 202 | 9 155 | 22.4 | 6 969 | 17.1 | 9 245 | 75.4 | 4 | 40 803 202 | 100.0 | 9 155 | 22.4 | 100.0 | 6 969 | 17.1 | 84.1 |
| Costa Rica | 3 841 496 | 694 | 18.1 | 562 | 14.6 | 296 | 189.9 | 1 | | | | | | | | |
| Cuba | 11 115 605 | 1 304 | 11.7 | 744 | 6.7 | 881 | 84.4 | 4 | 11 115 605 | 100.0 | 1 304 | 11.7 | 100.0 | 744 | 6.7 | 70.1 |
| Dominica | 71 000 | 5 | 7.0 | 5 | 7.0 | 5 | 100.0 | 2 | 2 840 | 4.0 | 3 | 105.6 | 60.0 | 3 | 105.6 | 100.0 |
| Dominican Republic (the) | 8 231 879 | 4 263 | 51.8 | 2 194 | 26.7 | 4 127 | 53.2 | 1 | | | | | | | | |
| Ecuador | 12 174 641 | 9 184 | 75.4 | 6 455 | 53.0 | 9 006 | 71.7 | 3 | 1 339 211 | 11.0 | 2 020 | 150.8 | 22.0 | 1 623 | 121.2 | 89.0 |
| El Salvador | 6 032 269 | 1 700 | 28.2 | 1 071 | 17.8 | 1 993 | 53.7 | 3 | 5 429 042 | 90.0 | 1 587 | 29.2 | 93.4 | 984 | 18.1 | 70.2 |
| Grenada | 93 000 | 2 | 2.2 | 2 | 2.2 | 2 | 100.0 | 5 | | | | | | | | |
| Guatemala | 10 801 109 | 2 755 | 25.5 | 2 255 | 20.9 | 4 395 | 51.3 | 4 | 10 801 109 | 100.0 | 2 755 | 25.5 | 100.0 | 2 255 | 20.9 | 86.9 |
| Guyana | 849 559 | 318 | 37.4 | 85 | 10.0 | 293 | 29.0 | 1 | | | | | | | | |
| Haiti | 7 952 408 | 9 857 | 123.9 | 6 442 | 81.0 | 12 147 | 53.0 | 2 | 715 717 | 9.0 | 1 932 | 269.9 | 19.6 | 1 476 | 206.2 | 87.4 |
| Honduras | 6 147 498 | 4 916 | 80.0 | 2 311 | 37.6 | 2 617 | 88.3 | 2 | 36 885 | 0.6 | 80 | 216.9 | 1.6 | 56 | 151.8 | 77.8 |
| Jamaica | 2 538 284 | 124 | 4.9 | 82 | 3.2 | 89 | 92.1 | 4 | 2 538 284 | 100.0 | 121 | 4.8 | 97.6 | 80 | 3.2 | 73.4 |
| Mexico | 95 830 901 | 7 584 | 7.9 | 6 189 | 6.5 | 17 089 | 36.2 | 3 | 31 624 197 | 33.0 | 6 846 | 21.6 | 90.3 | 5 714 | 18.1 | 96.0 |
| Nicaragua | 4 806 908 | 2 604 | 54.2 | 1 648 | 34.3 | 1 907 | 86.4 | 4 | 4 806 908 | 100.0 | 2 604 | 54.2 | 100.0 | 1 648 | 34.3 | 73.8 |
| Panama | 2 767 250 | 1 479 | 53.4 | 1 393 | 50.3 | 705 | 197.6 | 2 | 190 940 | 6.9 | 106 | 55.5 | 7.2 | 88 | 46.1 | 85.4 |
| Paraguay | 5 222 139 | 1 858 | 35.6 | 850 | 16.3 | 1 702 | 49.9 | 1 | | | | | | | | |
| Peru | 24 796 829 | 43 723 | 176.3 | 27 707 | 111.7 | 29 442 | 94.1 | 4 | 24 796 829 | 100.0 | 43 723 | 176.3 | 100.0 | 27 707 | 111.7 | 82.9 |
| Puerto Rico | 3 809 532 | 200 | 5.2 | 105 | 2.8 | 156 | 67.3 | 4 | 3 809 532 | 100.0 | 200 | 5.2 | 100.0 | 105 | 2.8 | 60.0 |
| Saint Kitts and Nevis | 41 000 | 5 | 12.2 | 3 | 7.3 | 2 | 150.0 | 4 | 41 000 | 100.0 | 5 | 12.2 | 100.0 | 3 | 7.3 | 75.0 |
| Saint Lucia | 148 000 | 21 | 14.2 | 12 | 8.1 | 12 | 98.4 | 3 | 68 080 | 46.0 | 21 | 30.8 | 100.0 | 12 | 17.6 | 80.0 |
| Saint Vincent and Grenadines | 115 000 | 5 | 4.3 | 3 | 2.6 | 16 | 18.6 | 4 | 115 000 | 100.0 | 5 | 4.3 | 100.0 | 3 | 2.6 | 60.0 |
| Suriname | 413 786 | | | | | 160 | | 0 | | | | | | | | |
| Trinidad and Tobago | 1 282 897 | 192 | 15.0 | 98 | 7.6 | 65 | 150.8 | 1 | | | | | | | | |

| | | Cou | ıntry In | formation | on (19 | 98) | | | | WH | О ТВ Со | ntrol | Strate | y (DOT | S) | |
|--------------------------------|-------------|----------|------------|-----------|--------|--------------------|------------------|-------|-------------|-------|------------|-------|-----------------|---------|------|-----------------------|
| | | | | | | | | | | | Cov | erage | | -111 | | % new |
| Countries | | | Notified C | Cases | | New ss+ | % case | Cate- | Populatio | n | Notified c | ases | % | New ss+ | | ss+ out of all new |
| | Population | All type | s | New ss | + | cases estimated | detection of new | gory | No. | (%) | No. | Rate | cases out of | notifi | | pulm. |
| | | No. | Rate | No. | Rate | esumated | ss+ cases | | | | | | all cases | No. | Rate | cases |
| | а | ь | С | d | е | f | d/f | g | h | h/a | i | j | k | 1 | m | n |
| United States of America (the) | 274 027 521 | 18 199 | 6.6 | 6 630 | 2.4 | 8 055 | 82.3 | 4 | 274 027 521 | 100.0 | 18 199 | 6.6 | 100.0 | 6 630 | 2.4 | 45.2 |
| Uruguay | 3 289 240 | 668 | 20.3 | 374 | 11.4 | 447 | 83.7 | 4 | 3 289 240 | 100.0 | 668 | 20.3 | 100.0 | 374 | 11.4 | 67.3 |
| Venezuela | 23 242 038 | 6 273 | 27.0 | 3 450 | 14.8 | 4 400 | 78.4 | 4 | 23 242 038 | 100.0 | 6 273 | 27.0 | 100.0 | 3 450 | 14.8 | 67.6 |
| Other Territories | | | | | | | | | | | | | | | | |
| Anguilla | 8 000 | | | | | 1 | | 0 | | | | | | | | |
| Bermuda | 64 000 | | | | | 1 | | 0 | | | ., | | | | | |
| British Virgin Islands | 20 000 | | | | | 1 | | 0 | | | | | | | | |
| Cayman Islands | 34 000 | 3 | 8.8 | 2 | 5.9 | | | 5 | | | | | | | | |
| Montserrat | 11 000 | 3 | 27.3 | | | | | 5 | | | | | | | | |
| Netherlands Antilles | 212 694 | | | | | 2 | | 0 | | | | | | | | |
| Turks and Caicos Islands | 16 000 | | | | | 1 | | 0 | | | | | | | | |
| United States Virgin Islands | 107 000 | | | | | 5 | | 0 | | | | | | | | |
| Regional Total | 807 096 136 | 237 446 | 30.6 | 129 994 | 16.8 | 185 448 | 70.1 | | 473 675 988 | 58.7 | 116 816 | 24.7 | 49.2 | 71 044 | 15.0 | 74.8 |

| | | Cou | ıntry lı | nformatio | on (19 | 98) | | | | (| Other Sti | rategy | / (non-l | DOTS) | | |
|------------------------------|-------------|----------|----------|-----------|--------|--------------------|---------------------|-------|-------------|-------|------------|--------|-----------------|---------|----------|-----------------------|
| | | | | | | | | | | | Cove | erage | | | | % new |
| Countries | | | Notified | Cases | | New ss+ | % case | Cate- | Populatio | | Notified c | , | % | New ss+ | | ss+ out of all new |
| | Population | All type | s | New ss | + | cases estimated | detection of new | gory | No. | (%) | No. | Rate | cases out of | notifi | | pulm. |
| | | No. | Rate | No. | Rate | Cournated | ss+ cases | , | | , | | | all cases | No. | Rate | cases |
| | а | ь | С | d | е | f | d/f | g | h | h/a | i | j | k | 1 | m | n |
| Antigua and Barbuda | 67 000 | | | | | 2 | | 0 | | | | | | | <u> </u> | |
| Argentina | 36 123 428 | 12 276 | 34.0 | 5 186 | 14.4 | 8 970 | 57.8 | 3 | 25 575 387 | 70.8 | 10 999 | 43.0 | 89.6 | 4 613 | 18.0 | 48.5 |
| Bahamas (the) | 296 110 | 75 | 25.3 | 28 | 9.5 | 72 | 38.9 | 1 | 296 110 | 100.0 | 75 | 25.3 | 100.0 | 28 | 9.5 | 39.4 |
| Barbados | 268 106 | 7 | 2.6 | 4 | 1.5 | 16 | 25.0 | 1 | 268 106 | 100.0 | 7 | 2.6 | 100.0 | 4 | 1.5 | 100.0 |
| Belize | 229 796 | | | | | 48 | | 1 | | | | | | | | |
| Bolivia | 7 957 253 | 10 132 | 127.3 | 6 750 | 84.8 | 9 057 | 74.5 | 3 | | | | | | | | |
| Brazil | 165 850 620 | 84 194 | 50.8 | 38 809 | 23.4 | 55 160 | 70.4 | 2 | 160 875 101 | 97.0 | 80 062 | 49.8 | 95.1 | 36 588 | 22.7 | 59.4 |
| Canada | 30 562 524 | | | | | 930 | | 0 | | | | | | | | |
| Chile | 14 823 614 | 3 668 | 24.7 | 1 576 | 10.6 | 1 927 | 81.8 | 4 | | | | | | | | |
| Colombia | 40 803 202 | 9 155 | 22.4 | 6 969 | 17.1 | 9 245 | 75.4 | 4 | | | | | | | | |
| Costa Rica | 3 841 496 | 694 | 18.1 | 562 | 14.6 | 296 | 189.9 | 1 | 3 841 496 | 100.0 | 694 | 18.1 | 100.0 | 562 | 14.6 | 89.5 |
| Cuba | 11 115 605 | 1 304 | 11.7 | 744 | 6.7 | 881 | 84.4 | 4 | | - | | | | | | |
| Dominica | 71 000 | 5 | 7.0 | 5 | 7.0 | 5 | 100.0 | 2 | 68 160 | 96.0 | 2 | 2.9 | 40.0 | 2 | 2.9 | 100.0 |
| Dominican Republic (the) | 8 231 879 | 4 263 | 51.8 | 2 194 | 26.7 | 4 127 | 53.2 | 1 | 8 231 879 | 100.0 | 4 263 | 51.8 | 100.0 | 2 194 | 26.7 | 62.9 |
| Ecuador | 12 174 641 | 9 184 | 75.4 | 6 455 | 53.0 | 9 006 | 71.7 | 3 | 10 835 430 | 89.0 | 7 164 | 66.1 | 78.0 | 4 832 | 44.6 | 71.6 |
| El Salvador | 6 032 269 | 1 700 | 28.2 | 1 071 | 17.8 | 1 993 | 53.7 | 3 | 603 227 | 10.0 | 113 | 18.7 | 6.6 | 87 | 14.4 | 91.6 |
| Grenada | 93 000 | 2 | 2.2 | 2 | 2.2 | 2 | 100.0 | 5 | 93 000 | 100.0 | 2 | 2.2 | 100.0 | 2 | 2.2 | 100.0 |
| Guatemala | 10 801 109 | 2 755 | 25.5 | 2 255 | 20.9 | 4 395 | 51.3 | 4 | | | | | | | | |
| Guyana | 849 559 | 318 | 37.4 | 85 | 10.0 | 293 | 29.0 | . 1 | 849 559 | 100.0 | 318 | 37.4 | 100.0 | 85 | 10.0 | 29.1 |
| Haiti | 7 952 408 | 9 857 | 123.9 | 6 442 | 81.0 | 12 147 | 53.0 | 2 | 7 236 691 | 91.0 | 7 925 | 109.5 | 80.4 | 4 966 | 68.6 | 73.3 |
| Honduras | 6 147 498 | 4 916 | 80.0 | 2 311 | 37.6 | 2 617 | 88.3 | 2 | 6 110 613 | 99.4 | 4 836 | 79.1 | 98.4 | 2 255 | 36.9 | 50.9 |
| Jamaica | 2 538 284 | 124 | 4.9 | 82 | 3.2 | 89 | 92.1 | 4 | 2 538 284 | 100.0 | 3 | 0.1 | 2.4 | 2 | 0.1 | 66.7 |
| Mexico | 95 830 901 | 7 584 | 7.9 | 6 189 | 6.5 | 17 089 | 36.2 | 3 | 64 206 704 | 67.0 | 738 | 1.1 | 9.7 | 475 | 0.7 | 88.8 |
| Nicaragua | 4 806 908 | 2 604 | 54.2 | 1 648 | 34.3 | 1 907 | 86.4 | 4 | | | | | | | | |
| Panama | 2 767 250 | 1 479 | 53.4 | 1 393 | 50.3 | 705 | 197.6 | 2 | 2 576 310 | 93.1 | 1 373 | 53.3 | 92.8 | 1 305 | 50.7 | 100.0 |
| Paraguay | 5 222 139 | 1 858 | 35.6 | 850 | 16.3 | 1 702 | 49.9 | 1 | 5 222 139 | 100.0 | 1 858 | 35.6 | 100.0 | 850 | 16.3 | 49.9 |
| Peru | 24 796 829 | 43 723 | 176.3 | 27 707 | 111.7 | 29 442 | 94.1 | 4 | | | | | | | | |
| Puerto Rico | 3 809 532 | 200 | 5.2 | 105 | 2.8 | 156 | 67.3 | 4 | | | | | | | | |
| Saint Kitts and Nevis | 41 000 | 5 | 12.2 | 3 | 7.3 | 2 | 150.0 | 4 | | | | - | | | | |
| Saint Lucia | 148 000 | 21 | 14.2 | 12 | 8.1 | 12 | 98.4 | 3 | | | | | | | | |
| Saint Vincent and Grenadines | 115 000 | 5 | 4.3 | 3 | 2.6 | 16 | 18.6 | 4 | | | | | | | | |
| Suriname | 413 786 | | | | | 160 | | 0 | | | | | | | | |
| Trinidad and Tobago | 1 282 897 | 192 | 15.0 | 98 | 7.6 | 65 | 150.8 | 1 | 1 282 897 | 100.0 | 192 | 15.0 | 100.0 | 98 | 7.6 | 54.7 |

| | | Cou | intry l | nformatio | on (19 | 98) | | | | 1 | Other Str | ateg | / (non- | DOTS) | | |
|--------------------------------|-------------|----------|----------|-----------|--------|-----------|---------------------|-------|-------------|-------|------------|-------|---------------------|---------|------|-----------------------|
| | | | | | | | | | | | Cove | erage | | | | % new |
| Countries | | | Notified | Cases | | New ss+ | % case | Cate- | Populatio | n | Notified c | ases | % | New ss+ | | ss+ out of all new |
| | Population | All type | :S | New ss | + | cases | detection | gory | No. | (%) | No. | Rate | cases | notifi | ed | pulm. |
| | | No. | Rate | No. | Rate | estimated | of new ss+ cases | | | | | | out of all cases | No. | Rate | cases |
| | а | b | С | d | е | f | d/f | g | h | h/a | i | j | k | 1 | m | n |
| United States of America (the) | 274 027 521 | 18 199 | 6.6 | 6 630 | 2.4 | 8 055 | 82.3 | 4 | | | | | | | | |
| Uruguay | 3 289 240 | 668 | 20.3 | 374 | 11.4 | 447 | 83.7 | 4 | | | | | | | | |
| Venezuela | 23 242 038 | 6 273 | 27.0 | 3 450 | 14.8 | 4 400 | 78.4 | 4 | | | | | | | | |
| Other Territories | | | | | | | | | | | | | | | | |
| Anguilla | 8 000 | | | | | 1 | | 0 | | | | | | · | | |
| Bermuda | 64 000 | | | | | 1 | | 0 | | | | | | | | |
| British Virgin Islands | 20 000 | | | | | 1 | | 0 | | | | | | | | |
| Cayman Islands | 34 000 | 3 | 8.8 | 2 | 5.9 | | | 5 | 34 000 | 100.0 | 3 | 8.8 | 100.0 | 2 | 5.9 | 66.7 |
| Montserrat | 11 000 | 3 | 27.3 | | | | | 5 | 6 820 | 62.0 | 3 | 44.0 | 100.0 | | | |
| Netherlands Antilles | 212 694 | | | | | 2 | | 0 | | | | | | | | |
| Turks and Caicos Islands | 16 000 | | | | | 1 | | 0 | | | | | | | | |
| United States Virgin Islands | 107 000 | | | | | 5 | | 0 | | | | | | | | |
| Regional Total | 807 096 136 | 237 446 | 30.6 | 129 994 | 16.8 | 185 448 | 70.1 | | 300 751 914 | 37.3 | 120 630 | 40.1 | 50.8 | 58 950 | 19.6 | 60.5 |

| | | | | | | V | VHO : | тв с | ontrol S | trateg | y (DO | TS) | | | | | | |
|------------------------------|------------|--------------|--------------|-------|--------|--------|-------|----------|----------------|---------|--------------|----------|--------|-------|--------|------|----------|----------------|
| | | | | | | | Trea | atmer | nt Outco | omes i | n 199 | 7 | | | | | | |
| | | | | New | ss+ ca | ses | | | | T | | | Retrea | tment | cases | | | |
| Countries | Registered | Not | Cured | Comp. | Def. | Failed | Dead | Trans. | Treat. | Registe | r Not | Cured | Comp. | Def. | Failed | Dead | Trans. | Treat. |
| | | eval. (%) | (%) | (%) | (%) | (%) | (%) | (%) | Success (%) | -ed | eval. (%) | (%) | (%) | (%) | (%) | (%) | (%) | Success (%) |
| | 0 | р | q | r | s | t | и | v | w | х | У | z | aa | ab | ac | ad | ae | af |
| Antigua and Barbuda | | | | | | | | | | | | | | | | | | |
| Argentina | | | | | | | | | | | | | | | | | | |
| Bahamas (the) | | | | | | | | | | | | | | | | | | |
| Barbados | | | | | | | | | | | | | | | | | | |
| Belize | | | | | | | | | | | | | | | | | | |
| Bolivia | 6 458 | 3.1 | 68.9 | 8.5 | 11.2 | 0.7 | 3.5 | 4.1 | 77.4 | | | | | | | | | |
| Brazil | | | | | | | | | | | | | | | | | | |
| Canada | | | | | | | | | | | | | | | | | | |
| Chile | 1 640 | 3.5 | | 76.6 | 7.1 | 0.4 | 7.3 | 5.2 | 76.6 | 269 | 13.8 | | 63.6 | 16.0 | | 3.0 | 3.7 | 63.6 |
| Colombia | | | | | | | | | | | | | | | | | | |
| Costa Rica | | | | | | | | | | | | | | | | | | |
| Cuba | 765 | 0.7 | 90.3 | | 0.9 | 1.2 | 5.9 | 1.0 | 90.3 | 93 | 0.0 | 79.6 | | 2.2 | 5.4 | 12.9 | | 79.6 |
| Dominica | | | | | | | | | | | | | | | | | | |
| Dominican Republic (the) | | | | | | | | | | | | | | | | | | |
| Ecuador | 1 481 | 46.3 | 25.8 | 17.1 | 8.4 | 0.3 | 0.8 | 1.3 | 42.9 | 251 | 45.4 | 17.9 | 16.3 | 7.2 | 5.6 | 1.6 | 6.0 | 34.3 |
| El Salvador | ***** | | | | | | | | | | 1 | | | | | | | |
| Grenada | | | | | | | | | | | | | | | | | | |
| Guatemala | 3 164 | 12.9 | 64.2 | 8.5 | 8.4 | 0.4 | 4.0 | 1.7 | 72.7 | 420 | 27.6 | 42.9 | 4.8 | 10.2 | 1.2 | 2.4 | 11.0 | 47.6 |
| Guyana | | | | | | | | | | | | | | | | | | |
| Haiti | 206 | 0.0 | 63.6 | 9.2 | 8.3 | 1.5 | 8.3 | 9.2 | 72.8 | 3 | | | | | | | | |
| Honduras | | | | | | | | | | | | | | | | | | |
| Jamaica | 71 | 0.0 | 9.9 | 69.0 | 5.6 | | 15.5 | | 78.9 | 21 | 0.0 | 4.8 | 81.0 | 14.3 | | | | 85.7 |
| Mexico | 13 489 | 11.2 | 64.1 | 6.1 | 8.0 | 2.5 | 4.1 | 4.1 | 70.2 | 12 | 0.0 | 66.7 | 33.3 | | | | | 100.0 |
| Nicaragua | 1 655 | 0.0 | 69.5 | 11.1 | 9.2 | 1.6 | 4.1 | 4.4 | 80.6 | 296 | 0.0 | 70.6 | 8.4 | 10.5 | 2.4 | 5.7 | 2.4 | 79.1 |
| Panama | 77 | 0.0 | 9.1 | 41.6 | 36.4 | | 6.5 | 6.5 | 50.6 | 11 | 0.0 | | 27.3 | 54.5 | | 9.1 | 9.1 | 27.3 |
| Paraguay | | | | | | | | | | 1 | | | | | | | | |
| Peru | 24 428 | 2.6 | 88.0 | 1.8 | 3.6 | 1.3 | 2.3 | 0.6 | 89.8 | 3 | | | | | | | | <u> </u> |
| Puerto Rico | 126 | 8.7 | 68.3 | | 4.0 | | 19.0 |) | 68.3 | 3 | | | | | | | | |
| Saint Kitts and Nevis | | | | | | | | | | | | | | | | | <u> </u> | |
| Saint Lucia | 12 | 25.0 | 58.3 | 8.3 | | | 8.3 | | 66.7 | 5 | 0.0 | 40.0 | 40.0 | | 20.0 | | | 80.0 |
| Saint Vincent and Grenadines | 7 | 0.0 | | | | | 14.3 | | 85.7 | | 1 | | | | | | | |
| Suriname | | | 1 | | | | | <u> </u> | | 1 | 1 | | | | | | | |
| Trinidad and Tobago | | | | | - | | ļ | | | | 1 | <u> </u> | | | | | - | - |

Regional Profile - AMR cont'd.

| | | | | | | ٧ | VHO T | ГВ Сс | ntrol S | trategy | (DO | TS) | | | | | | |
|--------------------------------|------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|-----------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|
| | | | | | | | Trea | atmen | t Outco | mes ir | 199° | 7 | | | | | | |
| | | | | New | ss+ ca | ses | | | | | | | Retre | atment | cases | 3 | | |
| Countries | Registered | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) | Register -ed | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) |
| | 0 | р | q | r | s | t | и | V | w | х | У | z | aa | ab | ac | ad | ae | af |
| United States of America (the) | 6 925 | 10.0 | 72.2 | | 2.5 | | 11.4 | 3.9 | 72.2 | | | | | | | | | |
| Uruguay | 422 | 2.4 | 53.6 | 23.9 | 4.0 | 4.5 | 11.6 | | 77.5 | 33 | 3.0 | 42.4 | 42.4 | | 6.1 | 6.1 | | 84.8 |
| Venezuela | 3 194 | 14.3 | 71.8 | 0.4 | 8.7 | 0.4 | 4.3 | | 72.2 | | | | | | | | | |
| Other Territories | | | | | | | | | | | | | | | | | | |
| Anguilla | | | | | | | | | | | | | | | | | | |
| Bermuda | | | | | | | | | | | | | | | | | | |
| British Virgin Islands | | | | | | | | | | | | | | | | | | |
| Cayman Islands | | | | | | | | | | | | | | | | | | |
| Montserrat | | | | | - | | | _ | | | | | | | | | | |
| Netherlands Antilles | | | | | | | | | | | | | | | | | | |
| Turks and Caicos Islands | | | | | | | | | | | | | | | | | | |
| United States Virgin Islands | | | | | | | | | | | | | | | | | | |
| Regional Total | 64 120 | 7.3 | 72.7 | 6.2 | 6.0 | 1.2 | 4.2 | 2.3 | 78.9 | 1 411 | 19.0 | 37.8 | 21.0 | 10.3 | 2.4 | 3.8 | 5.6 | 58.8 |

Regional Profile - AMR cont'd.

| | | | | | | | Ot | her S | trategy | (non-[| OTS | 5) | | | | | | |
|------------------------------|------------|--------------|-------|--------|--------|---------|-------|--------|----------------|----------|--------------|--|--------|-------|---------|-------|--------|----------------|
| | | | | | | | Tre | atme | nt Outo | omes i | n 199 | 97 | | | | | | |
| | | | New s | s+ cas | es (St | nort Co | urse) | | | | | New s | s+ cas | es (O | ther Re | gimen |) | |
| Countries | Registered | Not | | Comp. | Def. | Failed | Dead | Trans. | Treat. | Register | Not | | | Def. | Failed | | Trans. | Treat. |
| | | eval. (%) | (%) | (%) | (%) | (%) | (%) | (%) | Success (%) | -ed | eval. (%) | (%) | (%) | (%) | (%) | (%) | (%) | Success (%) |
| | 0 | р | q | r | s | t | и | v | w | х | У | Z | aa | ab | ac | ad | ae | af |
| Antigua and Barbuda | | | | | | | | | | | | | | | | | | |
| Argentina | 5 234 | 44.1 | 14.3 | 27.3 | 6.7 | 0.2 | 3.5 | 3.9 | 41.6 | | | | | | | | | |
| Bahamas (the) | 48 | 0.0 | | 77.1 | | | 22.9 | | 77.1 | | | | | | | | | |
| Barbados | 6 | 0.0 | 1 | 83.3 | 16.7 | | | | 83.3 | | | | | | | | | |
| Belize | | | | | | | | | - | | | | | | | | | |
| Bolivia | | | | | | | | | | | | | | | | | | |
| Brazil | 43 490 | 64.2 | | 26.9 | 5.2 | 0.3 | 2.0 | 1.4 | 26.9 | | | | | | | | | |
| Canada | | | | | | | | | | | | | | | | | | |
| Chile | | | | | | | | | | | | | | | | | | |
| Colombia | | | 1 | | | | | | | | | | | | | | | |
| Costa Rica | | | | | | | | | | | | | | | T | | | |
| Cuba | | | | | | | | | | | | | | | | | | |
| Dominica | 6 | 0.0 | 83.3 | | | 16.7 | | | 83.3 | | | ļ | | | | | | |
| Dominican Republic (the) | 2 682 | 4.2 | 66.0 | 18.0 | 7.8 | 1.9 | 0.7 | 1.5 | 83.9 | | | | | | | | | |
| Ecuador | 3 989 | 5.1 | 15.2 | 44.5 | 16.8 | 1.2 | 4.5 | 12.6 | 59.7 | 1 | | | | | | | | |
| El Salvador | 771 | 0.0 | 66.3 | 2.3 | 11.3 | 0.4 | 4.3 | 15.4 | 68.6 | | | | | | | | | |
| Grenada | 4 | 0.0 | | 75.0 | | | | 25.0 | 75.0 | | | | | | | | | |
| Guatemala | | | | | | | | | | | | | | | | | | |
| Guyana | 363 | 69.1 | 6.6 | 8.3 | 11.3 | 0.8 | 3.9 | | 14.9 | | | | | | | | | |
| Haiti | 5 291 | 0.0 | 54.9 | 15.9 | 20.5 | 0.5 | 5.9 | 2.3 | 70.8 | | | | | | | | | |
| Honduras | 1 928 | 12.6 | 36.6 | 33.9 | 6.7 | 0.4 | 7.3 | 2.5 | 70.4 | | | | | | | | | |
| Jamaica | | | | | | | | | | | | | | | | | | |
| Mexico | 4 048 | 53.1 | 31.3 | 3.7 | 5.7 | 2.1 | 2.3 | 1.9 | 35.0 | | | | | | | | | |
| Nicaragua | | | | | | | | | | | | | | | | | | |
| Panama | 592 | 0.0 | 0.7 | 51.0 | 26.7 | 2.4 | 9.6 | 9.6 | 51.7 | | | | | | | | | |
| Paraguay | | | | | | | | | | | | | | | | | | |
| Peru | | | | | | | | | | | | | | | | | | |
| Puerto Rico | | | | | | | | | | | | | | | | | | |
| Saint Kitts and Nevis | | | | | | | | | | | | | | | | | | |
| Saint Lucia | | | | | | | | | W- | | | | | | | | | |
| Saint Vincent and Grenadines | | † | | | - | | | | | | | | | | - | | | |
| Suriname | | | | | | | | | | | | | | | | | | |
| Trinidad and Tobago | 52 | 0.0 | 46.2 | 28.8 | 5.8 | 5.8 | 13.5 | | 75.0 | - | | | | | | | | |

Regional Profile - AMR cont'd.

| | | | | | | | Ot | her S | trategy | (non-E | OTS | 5) | | | B. C. C. | | | |
|--------------------------------|------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|-----------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|
| | | | | | | | Tre | atme | nt Outc | omes i | n 199 | 97 | | | | | | |
| | | | New s | s+ cas | es (SI | hort Co | urse) | | | | | New s | s+ cas | es (O | ther Re | gimen | 1) | |
| Countries | Registered | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) | Register -ed | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) |
| | 0 | р | q | r | s | t | и | v | w | х | У | Z | aa | ab | ac | ad | ae | af |
| United States of America (the) | | | | | | | | | | | | | | | | | | |
| Uruguay | | | | | | | | | | | | | | | | | | |
| Venezuela | | | | | | | | | | | | | | | | | | |
| Other Territories | | | · | | | | | | | | | | | | | | | |
| Anguilla | | | | | | | | | | | | | | | | | | |
| Bermuda | | | | | | | | | | | | | | | | | | |
| British Virgin Islands | | | | | | | | | | | | | | | | | | |
| Cayman Islands | | | | | | | | | | | | | | | | | | |
| Montserrat | | | | | | | | | | | | | | | | | | |
| Netherlands Antilles | | | | | | | | | | | | | | | | | | |
| Turks and Caicos Islands | | | | | | | | | | | | | | | | | | |
| United States Virgin Islands | | | | | | | | | | | | | | | | | | |
| Regional Total | 68 504 | 48.4 | 12.5 | 25.5 | 7.7 | 0.5 | 2.8 | 2.6 | 38.0 | | | | | | | | | |

AMR - Notification rates by age and sex, 1998.

| | | | | | MALE | | | | | | | F | EMALE | | | | | | | | ALL | | | | |
|--|------------|--------------------|----------------------|-----------------------|-----------------------|------------------------|-----------------------|-----------------------|----------------------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|----------------------|----------------------|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|----------------------|----------------------|
| | Age groups | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | <u>></u> 65 T | otal | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total |
| Argentina Bahamas (the) Barbados | | 1.6 0.0 | 17.5 11.3 | 22.6 7.8 | 21.4 33.6 | 26.4 41.3 | 29.1 37.9 | 27.1 0.0 | 16.6 13.8 | 1.9 2.2 | 17.3 3.8 | 19.9 11.5 | 12.1 22.2 | 12.1 7.6 | 13.9 0.0 | 14.6 0.0 | 11.7 7.3 | 1.8 1.1 | 17.4 7.6 | 21.2 9.7 | 16.6 27.6 | 19.1 23.7 | 21. 1 17.6 | 19.8 0.0 | 14.0 10.5 |
| Bolivia Brazil Cayman Islands | | 10.3 | 0.0 | 156.4 0.0 | 148.3 0.0 | 178.8 0.0 | 205.0 | 260.0 94.1 | 103.5 5.9 | 12.9 | 99.6 | 101.2 31.4 | 66.6 | 0.0 | 79.1 | 0.0 | 62.4 5.9 | 0.0 | 129.7 | 128.5 15.7 | 0.0 | 0.0 | 138.6 | 193.1 47.1 | 82.7 5.9 |
| Chile Colombia Costa Rica | | 4.6 | 14.2 | 24.7 | 25.9 | 33.1 | 44.1 | 42.9 | 18.5 | 3.7 | 5.4 | 14.2 | 18.5 | 17.0 | 17.1 | 27.5 | 10.7 | 4.1 | 9.9 | 19.6 | 22.2 | 25.1 | 30.5 | 34.7 | 14.6 |
| Cuba Dominica Dominican Republic (the) | | 0.0 0.0 4.4 | 7.3 0.0 42.1 | 12.3 0.0 58.1 | 14.0 0.0 34.6 | 11.8 33.3 39.3 | 11.4 0.0 55.7 | 22.7 0.0 30.2 | 9.7 2.9 31.0 | 0.1 0.0 4.4 | 2.2 33.3 34.0 | 4.3 0.0 35.8 | 2.9 16.7 27.6 | 4.5 0.0 25.1 | 6.5 50.0 36.5 | 11.2 0.0 19.3 | 3.7 10.8 22.2 | 0.0 0.0 4.4 | 4.8 16.7 38.1 | 8.4 0.0 47.2 | 8.4 8.3 31.2 | 8.1 14.3 32.4 | 8.9 25.0 46.2 | 16.7 0.0 24.7 | 6.7 7.0 26.7 |
| Ecuador El Salvador Grenada | | 7.8 1.9 0.0 | 31.8 14.2 12.2 | 29.0 30.0 0.0 | 8.2 36.2 14.0 | 42.6 0.0 | 47.1 0.0 | 68.5 0.0 | 15.0 19.7 4.4 | 2.1 2.0 0.0 | 23.6 12.3 0.0 | 18.0 19.4 0.0 | 13.9 16.5 0.0 | 17.8 0.0 | 27.9 0.0 | 4 5.6 | 10.1 13.1 0.0 | 5.0 1.9 0.0 | 27.8 13.3 6.5 | 23.6 24.4 0.0 | 11.0 25.6 7.0 | 29.6 0.0 | 37.0 0.0 | 55.7 0.0 | 12.5 16.3 2.2 |
| Guatemala Guyana Haiti | | 2.5 6.8 11.1 | 18.2 36.5 98.6 | 34.8 67.9 183.4 | 50.6 71.6 182.0 | 52.7 112.3 142.3 | 70.4 11.1 114.3 | 86.8 80.7 115.4 | 22.3 44.4 83.8 | 1.9 10.0 12.7 | 18.5 40.2 101.7 | 30.1 45.8 171.8 | 41.8 41.3 150.8 | 50.6 11.6 107.0 | 55.7 39.1 76.0 | 55.2 59.8 79.1 | 19.5 30.8 78.6 | 2.2 8.4 11.9 | 18.3 38.3 100.1 | 32.4 56.8 177.5 | 46.1 55.9 165.4 | 51.6 60.1 123.0 | 63.0 26.0 93.4 | 70.5 69.1 95.4 | 20.9 37.4 81.0 |
| Honduras Jamaica Mexico | | 11.0 0.0 0.8 | 43.3 1.2 6.1 | 57.0 9.1 9.0 | 71.9 6.0 13.1 | 116.8 10.8 16.4 | 158.5 11.1 21.4 | 55.4 9.5 31.2 | 42.9 4.4 7.9 | 8.0 0.3 0.9 | 33.2 3.3 5.1 | 43.5 1.4 5.6 | 53.7 4.9 6.7 | 85.3 1.1 9.3 | 112.5 6.1 11.5 | 36.8 2.3 14.5 | 32.3 2.1 5.0 | 9.6 0.1 0.9 | 38.3 2.2 5.6 | 50.3 5.1 7.3 | 62.8 5.4 9.8 | 100.9 5.9 12.7 | 135.0 8.6 16.2 | 45.5 5.6 22.1 | 37.6 3.2 6.5 |
| Montserrat Nicaragua Panama | | 0.0 2.3 0.4 | 0.0 43.7 5.3 | 0.0 59.0 6.0 | 0.0 72.0 5.7 | 0.0 80.4 3.3 | 0.0 117.7 3.9 | 0.0 175.1 7.3 | 0.0 37.8 3.7 | 0.0 3.3 0.2 | 0.0 39.9 3.5 | 0.0 62.5 5.6 | 0.0 49.6 4.0 | 0.0 46.2 2.5 | 0.0 71.8 1.3 | 0.0 70.7 2.8 | 0.0 30.9 2.6 | 0.0 2.8 0.3 | 0.0 41.8 4.4 | 0.0 60.8 5.8 | 0.0 60.4 4.9 | 0.0 62.9 2.9 | 0.0 94.0 2.6 | 0.0 117.4 5.0 | 0.0 34.3 3.2 |
| Paraguay Peru Puerto Rico | | 1.3 16.2 0.2 | 19.6 244.3 2.7 | 25.9 206.6 3.9 | 31.8 152.4 7.0 | 46.2 142.1 6.1 | 63.7 131.9 9.9 | 118.2 177.0 7.9 | 20.7 131.2 4.1 | 1.6 20.5 0.2 | 17.6 179.8 0.0 | 14.5 143.5 1.7 | 12.6 97.4 1.9 | 21.0 69.8 1.3 | 31.3 80.4 5.3 | 38.2 106.2 3.6 | 11.8 93.0 1.5 | 1.5 18.4 0.2 | 18.6 212.2 1.4 | 20.3 174.3 2.8 | 22.4 124.0 4.2 | 33.9 105.2 3.5 | 47.1 105.4 7.4 | 71.8 138.9 5.5 | 16.2 111.7 2.8 |
| Saint Kitts and Nevis Saint Lucia Saint Vincent and the Grenadines | | 0.0 0.0 0.0 | 0.0 16.6 0.0 | 0.0 7.6 19.7 | 65.0 8.3 0.0 | 48.8 0.0 19.7 | 0.0 0.0 0.0 | 0.0 14.2 0.0 | 14.6 6.9 5.5 | 0.0 0.0 0.0 | 0.0 24.8 0.0 | 0.0 16.6 0.0 | 0.0 0.0 0.0 | 0.0 0.0 0.0 | 0.0 19.9 0.0 | 0.0 9.0 0.0 | 0.0 9.3 0.0 | 0.0 0.0 0.0 | 0.0 20.7 0.0 | 0.0 11.9 9.8 | 32.5 4.1 0.0 | 24.4 0.0 8.9 | 0.0 11.0 0.0 | 0.0 11.0 0.0 | 7.3 8.1 2.6 |
| Trinidad and Tobago United States of America (the) Uruguay | | 0.0 0.0 0.5 | 7.0 1.7 11.1 | 11.9 3.3 20.5 | 22.7 4.4 25.6 | 22.1 5.7 28.2 | 23.3 5.7 27.5 | 22.5 6.9 24.6 | 11.5 3.4 16.1 | 0.6 0.1 0.5 | 3.9 1.5 11.5 | 3.0 2.1 12.6 | 5.3 1.9 7.0 | 3.1 1.5 7.8 | 12.2 1.5 3.8 | 9.7 2.9 10.3 | 3.9 1.5 7.1 | 0.3 0.1 0.5 | 5.5 1.6 11.3 | 7.4 2.7 16.5 | 13.9 3.2 16.0 | 12.6 3.6 17.6 | 17.6 3.5 14.8 | 15.6 4.6 16.2 | 7.6 2.4 11.4 |
| Venezuela | | | 47. | 40.5 | 40.0 | 40- | 45.0 | 40.7 | 44.6 | 4- | 40. | 44.6 | • • | • • | 7.0 | • • | | | 48- | | 40. | 48.5 | | | |
| | AMR | 1.6 | 17.1 | 16.2 | 12.9 | 13.7 | 15.3 | 16.5 | 11.3 | 1.7 | 13.4 | 11.9 | 8.0 | 6.8 | 7.8 | 8.1 | 7.7 | 1.7 | 15.3 | 14.0 | 10.4 | 10.2 | 11.4 | 11.8 | 9.4 |

AMR - Age and sex distribution of smear-positive TB cases in DOTS areas, 1998 (absolute numbers).

| | | | | | MALE | | | | | | | F | EMALE | | | | | | | | ALL | | | | |
|---------------------------------|------------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|--------|-------|-------|-------|-------|--------|
| | Age groups | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total |
| Argentina | | 14 | 57 | 57 | 51 | 69 | 43 | 38 | 329 | 12 | 59 | 56 | 42 | 24 | 18 | 23 | 234 | 26 | 116 | 113 | 93 | 93 | 61 | 61 | 563 |
| Bolivia | i | 167 | 1254 | 885 | 579 | 488 | 364 | 353 | 4 090 | 202 | 777 | 587 | 274 | 264 | 157 | 230 | 2 491 | 369 | 2 031 | 1 472 | 853 | 752 | 521 | 583 | 6 581 |
| Brazil | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chile | | | | | | | | | | | | | | | | | | | | | | | | | |
| Colombia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cuba | | 0 | 60 | 140 | 109 | 75 | 53 | 102 | 539 | 1 | 17 | 48 | 23 | 30 | 31 | 55 | 205 | 1 | 77 | 188 | 132 | 105 | 84 | 157 | 744 |
| Dominica | | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 3 |
| Ecuador | | 169 | 402 | 286 | 58 | | | | 915 | 44 | 290 | 175 | 99 | | | | 608 | 213 | 692 | 461 | 157 | 0 | 0 | 0 | 1 523 |
| El Salvador | | 21 | 95 | 131 | 99 | 87 | 65 | 84 | 582 | 21 | 81 | 93 | 53 | 40 | 43 | 71 | 402 | 42 | 176 | 224 | 152 | 127 | 108 | 155 | 984 |
| Guatemala | | 60 | 206 | 248 | 234 | 163 | 148 | 152 | 1 211 | 45 | 203 | 216 | 199 | 160 | 118 | 103 | 1 044 | 105 | 409 | 464 | 433 | 323 | 266 | 255 | 2 255 |
| Haiti | | 58 | 156 | 201 | 141 | 93 | 37 | 32 | 718 | 75 | 192 | 221 | 135 | 69 | 36 | 30 | 758 | 133 | 348 | 422 | 276 | 162 | 73 | 62 | 1 476 |
| Honduras | | 2 | 6 | 6 | 5 | 5 | 4 | 4 | 32 | 2 | 3 | 5 | 4 | 5 | 3 | 2 | 24 | 4 | 9 | 11 | 9 | 10 | 7 | 6 | 56 |
| Jamaica | | 0 | 3 | 19 | 9 | 10 | 7 | 6 | 54 | 1 | 8 | 2 | 8 | 1 | 4 | 2 | 26 | 1 | 11 | 21 | 17 | 11 | 11 | 8 | 80 |
| Mexico | | 128 | 576 | 647 | 639 | 526 | 436 | 512 | 3 464 | 129 | 476 | 428 | 359 | 320 | 256 | 282 | 2 250 | 257 | 1 052 | 1 075 | 998 | 846 | 692 | 794 | 5 714 |
| Nicaragua | | 24 | 221 | 193 | 155 | 106 | 94 | 110 | 903 | 34 | 202 | 215 | 114 | 64 | 61 | 55 | 745 | 58 | 423 | 408 | 269 | 170 | 155 | 165 | 1 648 |
| Panama | | 2 | 14 | 14 | 10 | 4 | 3 | 5 | 52 | 1 | 9 | 13 | 7 | 3 | 1 | 2 | 36 | 3 | 23 | 27 | 17 | 7 | 4 | 7 | 88 |
| Peru | | 704 | 6271 | 3987 | 2095 | 1337 | 831 | 889 | 16 114 | 862 | 4560 | 2894 | 1431 | 686 | 537 | 623 | 11 593 | 1 566 | 10 831 | 6 881 | 3 526 | 2 023 | 1 368 | 1 512 | 27 707 |
| Puerto Rico | | 1 | 9 | 11 | 16 | 12 | 14 | 12 | 75 | 1 | 0 | 5 | 5 | 3 | 9 | 7 | 30 | 2 | 9 | 16 | 21 | 15 | 23 | 19 | 105 |
| Saint Kitts and Nevis | | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 3 |
| Saint Lucia | | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 5 | 0 | 3 | 2 | 0 | 0 | 1 | 1 | 7 | 0 | 5 | 3 | 1 | 0 | 1 | 2 | 12 |
| Saint Vincent and the Grenadine | es | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 3 |
| United States of America (the) | | 14 | 323 | 661 | 1003 | 1002 | 628 | 913 | 4 544 | 17 | 267 | 422 | 426 | 271 | 181 | 496 | 2 080 | 31 | 590 | 1 083 | 1 429 | 1 273 | 809 | 1 409 | 6 624 |
| Uruguay | | 2 | 30 | 47 | 52 | 47 | 38 | 39 | 255 | 2 | 30 | 29 | 15 | 14 | 6 | 23 | 119 | 4 | 60 | 76 | 67 | 61 | 44 | 62 | 374 |
| Venezuela | | | | | | | | | | | | | | | | | | | | | | | | | |
| | AMR | 1 366 | 9 685 | 7 536 | 5 258 | 4 027 | 2 765 | 3 252 | 33 889 | 1 449 | 7 178 | 5 411 | 3 195 | 1 954 | 1 462 | 2 005 | 22 654 | 2 815 | 16 863 | 12 947 | 8 453 | 5 981 | 4 227 | 5 257 | 56 543 |
| | % | 4.0 | 28.6 | 22.2 | 15.5 | 11.9 | 8.2 | 9.6 | 100 | 6.4 | 31.7 | 23.9 | 14.1 | 8.6 | 6.5 | 8.9 | 100 | 5.0 | 29.8 | 22.9 | 14.9 | 10.6 | 7.5 | 9.3 | 100 |

AMR - Age and sex distribution of smear-positive TB cases in non-DOTS areas, 1998 (absolute numbers).

| | | | | | MALE | | | | | | | F | EMALE | | | | | | | | ALL | | | | |
|---|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------------|---------------------|-----------------|-----------------|-----------------|-------------------|-------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------|----------------------|-----------------|------------------|----------------|---------------------|
| | Age groups | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥ 6 5 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total |
| Argentina Bahamas (the) Barbados | | 70 0 | 521 3 | 514 2 | 412 7 | 407 5 | 344 3 | 332 0 | 2 600 20 | 82 1 | 499 1 | 442 3 | 229 5 | 205 1 | 189 0 | 253 0 | 1 899 11 | 152 1 | 1 020 4 | 956 5 | 641 12 | 612 6 | 533 3 | 585 0 | 4 499 31 |
| Brazil Cayman Islands Costa Rica | | 0 30 | 0 53 | 0 78 | 0 67 | 0 53 | 0 43 | 1 36 | 1 360 | 0 23 | 0 19 | 1 43 | 0 47 | 0 27 | 0 17 | 0 26 | 1 202 | 0 53 | 0 72 | 1 121 | 0 1 14 | 0 80 | 0 | 1 62 | 2 562 |
| Dominica Dominican Republic (the) Ecuador | | 0 62 | 0 340 | 0 416 | 0 184 | 0 130 | 0 114 | 0 50 | 0 1 296 | 0 60 | 1 265 | 0 247 | 0 141 | 0 79 | 1 73 | 0 33 | 2 898 | 0 122 | 1 605 | 0 663 | 0 325 | 0 209 | 1 187 | 0 83 | 2 2 194 |
| El Salvador Grenada Guyana | | 0 | 1 29 | 0 56 | 1 42 | 0 36 | 0 2 | 0 12 | 2 186 | 0 13 | 0 32 | 0 38 | 0 26 | 0 | 0 | 0 11 | 0 132 | 0 22 | 1 61 | 0 94 | 1 68 | 0 40 | 0 10 | 0 23 | 2 318 |
| Haiti Honduras Jamaica | | 130 145 0 | 648 271 0 | 770 250 0 | 515 206 0 | 238 200 0 | 140 177 0 | 110 46 1 | 2 551 1 295 1 | 133 101 0 | 635 203 0 | 737 187 1 | 485 154 0 | 231 1 47 0 | 105 132 0 | 89 36 0 | 2 415 960 1 | 263 246 0 | 1 283 474 0 | 1 507 437 1 | 1 000 360 0 | 469 347 0 | 245 309 0 | 199 82 1 | 4 966 2 255 2 |
| Mexico Montserrat Panama | | 9 | 34 | 56 | 56 | 46 | 37 | 57 | 295 | 15 | 29 | 32 | 22 | 26 | 22 | 34 | 180 | 24 | 63 | 88 | 78 | 72 | 59 | 91 | 475 |
| Paraguay Trinidad and Tobago | | 14 0 | 100 9 | 101 12 | 96 21 | 82 14 | 66 9 | 85 8 | 544 73 | 17 1 | 87 5 | 55 3 | 37 5 | 36 2 | 34 5 | 38 4 | 304 25 | 31 1 | 187 14 | 156 15 | 133 26 | 118 16 | 100 14 | 123 12 | 848 98 |
| | AMR % | 469 5.1 | 2 009 21.8 | 2 255 24.4 | 1 607 17.4 | 1 211 13.1 | 935 10.1 | 7 38 8.0 | 9 224 100 | 446 6.3 | 1 776 25.3 | 1 789 25.4 | 1 151 16.4 | 7 58 10.8 | 586 8.3 | 524 7.5 | 7 030 100 | 915 5.6 | 3 785 23.3 | 4 044 24.9 | 2 758 17.0 | 1 969 12.1 | 1 521 9.4 | 1 262 7.8 | 16 254 100 |

AMR- Number of tuberculosis cases notified, 1981-1998

| Antigua and Barbuda Argentina Bahamas (the) Barbados Belize Bolivia Brazil Canada Chile Colombia Costa Rica Cuba Dominica Dominican Republic (the) Ecuador | 3 16693 67 3 33 5072 86411 2554 7337 11483 521 833 26 1778 | 17292 54 30 44 4777 87822 2515 6941 12126 459 815 | 1 17305 58 17 140 5178 86617 2186 6989 13716 479 762 | 3 16359 53 14 35 4131 88365 2345 6561 12792 393 | 2 15987 63 12 25 7679 84310 1980 6644 12024 376 | 7 14681 52 7 23 6837 83731 2046 6854 11639 | 0 13368 43 3 41 8960 81826 1952 6280 | 3 13267 51 4 28 10664 82395 2032 6324 | 3 12636 52 5 30 12563 80048 1982 | 1 12309 46 5 57 11166 74570 1964 | 0 12185 53 5 89 11223 84990 2043 | 6 12606 63 6 65 9520 85955 | 13887 60 80 8614 | 13683 78 59 9431 75759 2074 | 13433 57 20 61 14422 88109 | 5 13397 59 3 53 10194 87254 | 12358 89 6 89 9853 83309 | 12276 75 7 10132 84194 |
|---|---|---|---|---|---|---|--|---|---|---|---|--|---------------------------|--|---|---|---|------------------------------------|
| Argentina Bahamas (the) Barbados Belize Bolivia Brazil Canada Chile Colombia Costa Rica Cuba Dominica Dominican Republic (the) | 67 3 33 5072 86411 2554 7337 11483 521 833 26 1778 | 54 30 44 4777 87822 2515 6941 12126 459 815 | 58 17 140 5178 86617 2186 6989 13716 479 | 53 14 35 4131 88365 2345 6561 12792 393 | 63 12 25 7679 84310 1980 6644 12024 | 52 7 23 6837 83731 2046 6854 | 43 3 41 8960 81826 1952 | 51 4 28 10664 82395 2032 | 52 5 30 12563 80048 1982 | 46 5 57 11166 74570 | 53 5 89 11223 84990 | 63 6 65 9520 85955 | 80 8614 | 78 59 9431 75759 | 57 20 61 14422 | 59 3 53 10194 87254 | 89 6 89 9853 | 75 7 10132 |
| Bahamas (the) Barbados Belize Bolivia Brazil Canada Chile Colombia Costa Rica Cuba Dominica Dominican Republic (the) | 67 3 33 5072 86411 2554 7337 11483 521 833 26 1778 | 30 44 4777 87822 2515 6941 12126 459 815 | 58 17 140 5178 86617 2186 6989 13716 479 | 14 35 4131 88365 2345 6561 12792 393 | 12 25 7679 84310 1980 6644 12024 | 7 23 6837 83731 2046 6854 | 3 41 8960 81826 1952 | 51 4 28 10664 82395 2032 | 5 30 12563 80048 1982 | 5 57 11166 74570 | 5 89 11223 84990 | 6 65 9520 85955 | 80 8614 | 59 9431 75759 | 20 61 14422 | 3 53 10194 87254 | 6 89 9853 | 7 10132 |
| Belize Bolivia Brazil Canada Chile Colombia Costa Rica Cuba Dominica Dominican Republic (the) | 33 5072 86411 2554 7337 11483 521 833 26 | 44 4777 87822 2515 6941 12126 459 815 | 140 5178 86617 2186 6989 13716 479 | 35 4131 88365 2345 6561 12792 393 | 25 7679 84310 1980 6644 12024 | 23 6837 83731 2046 6854 | 41 8960 81826 1952 | 28 10664 82395 2032 | 30 12563 80048 1982 | 57 11166 74570 | 89 11223 84990 | 65 9520 85955 | 8614 | 9431 75759 | 61 14422 | 53 10194 87254 | 89 9853 | 10132 |
| Bolivia Brazil Canada Chile Colombia Costa Rica Cuba Dominica Dominican Republic (the) | 5072 86411 2554 7337 11483 521 833 26 1778 | 4777 87822 2515 6941 12126 459 815 | 5178 86617 2186 6989 13716 479 | 4131 88365 2345 6561 12792 393 | 7679 84310 1980 6644 12024 | 6837 83731 2046 6854 | 8960 81826 1952 | 10664 82395 2032 | 12563 80048 1982 | 11166 74570 | 11223 84990 | 9520 85955 | 8614 | 9431 75759 | 14422 | 10194 87254 | 9853 | |
| Brazil Canada Chile Colombia Costa Rica Cuba Dominica Dominican Republic (the) | 86411 2554 7337 11483 521 833 26 1778 | 87822 2515 6941 12126 459 815 | 86617 2186 6989 13716 479 | 88365 2345 6561 12792 393 | 84310 1980 6644 12024 | 83731 2046 6854 | 81826 1952 | 82395 2032 | 80048 1982 | 74570 | 84990 | 85955 | | 75759 | | 87254 | | |
| Canada Chile Colombia Costa Rica Cuba Dominica Dominican Republic (the) | 2554 7337 11483 521 833 26 1778 | 2515 6941 12126 459 815 | 2186 6989 13716 479 | 2345 6561 12792 393 | 1980 6644 12024 | 2046 6854 | 1952 | 2032 | 1982 | | | | 2012 | | 88109 | | 83309 | 84194 |
| Chile Colombia Costa Rica Cuba Dominica Dominican Republic (the) | 7337 11483 521 833 26 1778 | 6941 12126 459 815 | 6989 13716 479 | 6561 12792 393 | 6644 12024 | 6854 | | | | 1964 | 2043 | 0004 | 2012 | 2074 | | 40.40 | | |
| Colombia Costa Rica Cuba Dominica Dominican Republic (the) | 11483 521 833 26 1778 | 12126 459 815 | 13716 479 | 12792 393 | 12024 | | 6280 | 6324 | | | 2040 | 2091 | 2012 | 2014 | | 1849 | | |
| Costa Rica Cuba Dominica Dominican Republic (the) | 521 833 26 1778 | 459 815 18 | 479 | 393 | | 11639 | | JOL 1 | 6728 | 6151 | 5498 | 5304 | 4598 | 4138 | 4150 | 4038 | 3879 | 3668 |
| Cuba Dominica Dominican Republic (the) | 833 26 1778 | 815 18 | | | 376 | | 11437 | 11469 | 11329 | 12447 | 12263 | 11199 | 11043 | 8901 | 9912 | 9702 | 8042 | 9155 |
| Dominica Dominican Republic (the) | 26 1778 | 18 | 762 | | | 418 | 434 | 442 | 311 | 230 | 201 | 118 | 313 | 325 | 321 | 162 | 633 | 694 |
| Dominican Republic (the) | 1778 | | | 705 | 680 | 656 | 630 | 628 | 581 | 546 | 514 | 410 | 790 | 1681 | 1607 | 1579 | 1441 | 1304 |
| | | 2157 | 16 | 5 | 8 | 35 | 27 | 7 | 13 | 6 | 14 | 13 | 7 | 12 | 8 | 10 | 6 | 5 |
| Ecuador | 3966 | | 2959 | 3100 | 2335 | 2634 | 2459 | 3081 | 3145 | 2597 | 1837 | 3490 | 4033 | 4337 | 4053 | 6006 | 5601 | 4263 |
| | | 3880 | 3985 | 4301 | 4798 | 5687 | 5867 | 5497 | 5480 | 8243 | 6879 | 7313 | 7050 | 9685 | 7893 | 6327 | 9527 | 9184 |
| El Salvador | 2091 | 2171 | 2053 | 1564 | 1461 | 1659 | 1647 | 2378 | 617 | 2367 | 2304 | 2495 | 3347 | 3901 | 2422 | 1686 | 1662 | 1700 |
| Grenada Guatemala | 1 6641 | 1 7277 | 6 6013 | 4 6586 | 2 6570 | 1 4806 | 2 5700 | 0 5739 | 4 4900 | 0 3813 | 1 2631 | 3 2517 | 0 2474 | 3 2508 | 2 5726 | 3496 | 4 3175 | 2 2755 |
| | | | | | | | | | | | | | | | | | | |
| Guyana | 117 | 135 | 149 | 165 | 215 | 190 | 117 | 150 | 120 | 168 | 134 | 182 | 91 | 266 | 296 | 314 | 407 | 318 |
| Haiti | 6550 | 3337 | 6839 | 5803 | 4959 | 8583 | 8514 | 8054 | 8100 | 0047 | 10237 | 4455 | 0745 | 4004 | 400.4 | 6632 | 10116 | 9857 |
| Honduras | 1696 | 1714 | 1935 | 2120 | 3377 | 4213 | 4227 | 3962 | 4026 | 3647 | 4560 | 4155 | 3745 | 4291 | 4984 | 4176 | 4030 | 4916 |
| Jamaica | 178 | 153 | 157 | 160 | 130 | 88 | 133 | 65 | 86 | 123 | 121 | 111 | 115 | 109 | 109 | 121 | 118 | 124 |
| Mexico | 32572 | 24853 | 22795 | 14531 | 15017 | 13180 | 14631 | 15371 | 15489 | 14437 | 15216 | 14446 | 15145 | 16353 | 11329 | 10852 | 23575 | 7584 |
| Nicaragua | 3723 | 3082 | 2773 | 2705 | 2604 | 2617 | 2983 | 2737 | 3106 | 2944 | 2797 | 2885 | 2798 | 2750 | 2842 | 3003 | 2806 | 2604 |
| Panama | 580 | 580 | 429 | 413 | 614 | 709 | 765 | 770 | 672 | 846 | 863 | 750 | 1146 | 827 | 1316 | 1099 | 1067 | 1479 |
| Paraguay | 1388 | 1415 | 1800 | 1718 | 1931 | 1628 | 1502 | 1438 | 2270 | 2167 | 2283 | 1927 | 2037 | 1850 | 2305 | 2148 | 1995 | 1858 |
| Peru | 21925 | 21579 | 22753 | 22792 | 24438 | 24702 | 30571 | 36908 | 35687 | 37905 | 40580 | 52552 | 51675 | 48601 | 45310 | 41739 | 42062 | 43723 |
| Puerto Rico | 521 | 473 | 452 | 418 | 338 | 363 | 303 | 275 | 314 | 159 | 241 | | 257 | 274 | 263 | 219 | 236 | 200 |
| Saint Kitts and Nevis | 4 | 6 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 6 | 2 | 4 | 3 | | 5 |
| Saint Lucia | 39 | 37 | 48 | 55 | 21 | 34 | 25 | 32 | 28 | 13 | 25 | 26 | | 24 | 12 | | 15 | 21 |
| Saint Vincent and the Grenadines | 11 | 14 | 4 | 23 | 14 | 9 | 3 | 6 | 3 | 2 | 1 | 4 | 13 | | 24 | | | 5 |
| Suriname | 81 | 56 | 78 | 76 | 50 | 60 | 77 | 77 | 70 | 82 | 47 | 58 | 45 | 53 | | 53 | 71 | |
| Trinidad and Tobago | 82 | 62 | 112 | 108 | 112 | 119 | 122 | 108 | 124 | 120 | 141 | 142 | 112 | 129 | 178 | 205 | 276 | 192 |
| United States of America (the) | 27373 | 25520 | 23846 | 22255 | 22201 | 22768 | 22517 | 22436 | 23495 | 25701 | 26283 | 26673 | 25287 | 24361 | 22860 | 21337 | 17314 | 18199 |
| Uruguay | 1699 | 1450 | 1359 | 1389 | 1201 | 1082 | 1023 | 951 | 987 | 886 | 759 | 699 | 689 | 666 | 625 | 701 | 708 | 668 |
| Venezuela | 4093 | 4159 | 4266 | 4737 | 4822 | 4974 | 4954 | 4557 | 4524 | 5457 | 5216 | 5444 | 5169 | 4877 | 5554 | 5576 | 5984 | 6273 |
| Other territories | | | | | | | | | | | | | | | | | | |
| Anguilla | 0 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 2 | | | |
| Bermuda | 2 | 5 | 10 | 3 | 3 | 6 | 2 | 1 | 2 | 0 | 3 | 4 | | | 4 | | | |
| British Virgin Islands | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | 3 | |
| Cayman Islands | 2 | 0 | 1 | 1 | 4 | 1 | 0 | | 2 | 2 | 3 | 3 | 2 | | 3 | 0 | 0 | 3 |
| Montserrat Netherlands Antilles | 0 | 0 | 1 | 7 | 9 | 5 | 13 | 6 | 5 | 1 | 1 | 0 | | 0 | | | | 3 |
| | | | | | | | | | | | | | | | | | | |
| Turks and Caicos Islands | 0 | 2 | 5 | 0 | 4 | 2 | 12 | - | | 0 | 0 | 0 | 0 | | | | | |
| United States Virgin Islands | 1_ | 1 | 2 | 3 | 1 | 1 | 2 | 6 | 4 | 4 | 4 | | 100.016 | 10 | 4 | 8 | | |
| Total No. of countries reporting | 248,150 43 | 237,316 42 | 238,296 43 | 226,801 43 | 227,022 43 | 227,107 43 | 233,172 43 | 241,919 41 | 239,541 42 | 231,182 42 | 252,246 43 | 253,239 40 | 166,640 33 | 242,018 <i>3</i> 5 | 250,220 36 | 244,006 35 | 250,457 34 | 237,446 34 |
| % of countries reporting | 98 | 95 | 98 | 98 | 98 | 98 | 98 | 93 | 95 | 95 | 98 | 91 | 75 | 80 | 82 | 80 | 77 | 77 |

AMR - Case notification rates (per 100 000 population), 1981-1998

| Country | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
|---|-------|-------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Antigua and Barbuda | 4.9 | | 1.6 | 4.8 | 3.2 | 11.3 | | 4.8 | 4.8 | 1.6 | | 9.2 | | | | 7.6 | | |
| Argentina | 58.5 | 59.7 | 58.8 | 54.8 | 52.8 | 47.7 | 42.9 | 41.9 | 39.4 | 37.8 | 37.0 | 37.7 | 41.0 | 39.9 | 38.6 | 38.0 | 34.6 | 34.0 |
| Bahamas (the) | 31.3 | 24.7 | 26.0 | 23.3 | 27.2 | 22.0 | 17.9 | 20.8 | 20.8 | 18.0 | 20.4 | 23.8 | 22.2 | 28.3 | 20.3 | 20.7 | 30.6 | 25.3 |
| Barbados | 1.2 | 12.0 | 6.8 | 5.6 | 4.7 | 2.8 | 1.2 | 1.6 | 2.0 | 1.9 | 1.9 | 2.3 | | | 7.6 | 1.1 | 2.2 | 2.6 |
| Belize | 22.1 | 28.7 | 89.0 | 21.7 | 15.1 | 13.5 | 23.5 | 15.7 | 16.4 | 30.4 | 46.3 | 32.9 | 39.5 | 28.4 | 28.6 | 24.2 | 39.7 | |
| Bolivia | 92.8 | 85.8 | 91.3 | 71.5 | 130.3 | 113.6 | 145.8 | 169.8 | 195.6 | 169.9 | 166.8 | 138.1 | 122.0 | 130.3 | 194.5 | 134.3 | 126.7 | 127.3 |
| Brazil | 69.5 | 69.1 | 66.7 | 66.7 | 62.3 | 60.7 | 58.3 | 57.6 | 55.0 | 50.4 | 56.5 | 56.3 | | 48.2 | 55.3 | 54.0 | 50.9 | 50.8 |
| Canada | 10.3 | 10.0 | 8.6 | 9.1 | 7.6 | 7.8 | 7.3 | 7.5 | 7.2 | 7.1 | 7.3 | 7.3 | 7.0 | 7.1 | | 6.2 | | |
| Chile | 64.8 | 60.4 | 59.9 | 55.3 | 55.2 | 56.0 | 50.4 | 49.9 | 52.2 | 47.0 | 41.3 | 39.2 | 33.4 | 29.6 | 29.2 | 28.0 | 26.5 | 24.7 |
| Colombia | 39.5 | 40.8 | 45.2 | 41.3 | 38.0 | 36.0 | 34.7 | 34.1 | 33.0 | 35.6 | 34.4 | 30.8 | 29.8 | 23.5 | 25.7 | 24.7 | 20.1 | 22.4 |
| Costa Rica | 22.1 | 18.9 | 19.2 | 15.3 | 14.2 | 15.4 | 15.5 | 15.4 | 10.5 | 7.5 | 6.4 | 3.6 | 9.3 | 9.4 | 9.0 | 4.4 | 16.9 | 18.1 |
| Cuba | 8.5 | 8.3 | 7.7 | 7.0 | 6.7 | 6.4 | 6.1 | 6.0 | 5.5 | 5.1 | 4.8 | 3.8 | 7.3 | 15.4 | 14.7 | 14.3 | 13.0 | 11.7 |
| Dominica | 35.1 | 24.7 | 21.9 | 6.8 | 11.1 | 48.6 | 37.5 | 9.7 | 18.1 | 8.5 | 19.7 | 18.3 | 9.9 | 16.9 | 11.3 | 14.1 | 8.5 | 7.0 |
| Dominican Republic (the) | 30.5 | 41.2 | 48.5 | 49.7 | 36.6 | 40.4 | 36.9 | 45.2 | 45.2 | 36.5 | 25.3 | 47.2 | 53.5 | 56.4 | 51.8 | 75.4 | 69.2 | 51.8 |
| Ecuador | 48.5 | 46.1 | 46.1 | 48.5 | 52.7 | 61.0 | 61.4 | 56.1 | 54.6 | 80.3 | 65.5 | 68.1 | 64.2 | 86.3 | 68.9 | 54.1 | 79.8 | 75.4 |
| El Salvador | 45.1 | 46.4 | 43.7 | 33.1 | 30.6 | 34.4 | 33.8 | 48.1 | 12.3 | 46.3 | 44.2 | 46.9 | 61.6 | 70.3 | 42.7 | 29.1 | 28.1 | 28.2 |
| Grenada | 1.1 | 1.1 | 6.7 | 4.4 | 2.2 | 1.1 | 2.2 | | 4.4 | | 1.1 | 3.3 | | 3.3 | 2.2 | | 4.3 | 2.2 |
| Guatemala | 95.0 | 101.4 | 81.7 | 87.3 | 84.9 | 60.6 | 70.2 | 68.9 | 57.4 | 43.6 | 29.3 | 27.3 | 26.2 | 25.8 | 57.4 | 34.1 | 30.2 | 25.5 |
| Guyana | 15.3 | 17.4 | 19.1 | 20.9 | 27.1 | 23.9 | 14.7 | 18.9 | 15.1 | 21.1 | 16.8 | 22.6 | 11.2 | 32.4 | 35.7 | 37.5 | 48.3 | 37.4 |
| Haiti | 117.5 | 58.5 | 117.1 | 97.1 | 81.0 | 136.7 | 132.1 | 121.9 | 119.7 | | 145.1 | | | | | 86.3 | 129.4 | 123.9 |
| Honduras | 46.0 | 45.0 | 49.2 | 52.3 | 80.7 | 97.6 | 94.9 | 86.3 | 85.1 | 74.8 | 90.7 | 80.2 | 70.2 | 78.1 | 88.2 | 71.8 | 67.4 | 0.08 |
| Jamaica | 8.2 | 7.0 | 7.0 | 7.0 | 5.7 | 3.8 | 5.7 | 2.8 | 3.7 | 5.2 | 5.1 | 4.6 | 4.7 | 4.4 | 4.4 | 4.9 | 4.7 | 4.9 |
| Mexico | 47.1 | 35.1 | 31.5 | 19.7 | 19.9 | 17.1 | 18.6 | 19.2 | 19.0 | 17.3 | 17.9 | 16.7 | 17.2 | 18.3 | 12.4 | 11.7 | 25.0 | 7.9 |
| Nicaragua | 123.4 | 98.9 | 86.3 | 81.7 | 76.5 | 75.0 | 83.6 | 75.0 | 83.2 | 76.9 | 71.1 | 71.3 | 67.1 | 64.0 | 64.2 | 66.0 | 60.0 | 54.2 |
| Panama | 29.1 | 28.5 | 20.6 | 19.5 | 28.3 | 32.0 | 33.9 | 33.4 | 28.6 | 35.3 | 35.3 | 30.1 | 45.2 | 32.0 | 50.0 | 41.1 | 39.2 | 53.4 |
| Paraguay | 43.3 | 42.8 | 52.9 | 49.1 | 53.5 | 43.7 | 39.1 | 36.2 | 55.4 | 51.4 | 52.6 | 43.2 | 44.5 | 39.3 | 47.7 | 43.3 | 39.2 | 35.6 |
| Peru | 123.4 | 118.6 | 122.1 | 119.6 | 125.4 | 124.0 | 150.3 | 177.8 | 168.6 | 175.7 | 184.8 | 235.1 | 227.3 | 210.1 | 192.5 | 174.3 | 172.6 | 176.3 |
| Puerto Rico | 16.1 | 14.4 | 13.6 | 12.5 | 10.0 | 10.7 | 8.8 | 7.9 | 9.0 | 4.5 | 6.8 | | 7.1 | 7.4 | 7.1 | 5.8 | 6.2 | 5.2 |
| Saint Kitts and Nevis | 9.1 | 13.6 | 4.5 | 7.0 | | | | | | | 2.4 | 9.5 | 14.3 | 4.9 | 9.8 | 7.3 | | 12.2 |
| Saint Lucia | 33.3 | 31.1 | 40.0 | 45.1 | 16.9 | 27.0 | 19.5 | 24.8 | 21.4 | 9.8 | 18.5 | 19.0 | | 17.0 | 8.5 | | 10.3 | 14.2 |
| Saint Vincent and the Grenadines | 11.1 | 14.0 | 4.0 | 22.8 | 13.7 | 8.7 | 2.9 | 5.7 | 2.8 | 1.9 | 0.9 | 3.7 | 11.8 | | 21.4 | | | 4.3 |
| Suriname | 22.6 | 15.4 | 21.0 | 20.1 | 13.0 | 15.4 | 19.6 | 19.4 | 17.5 | 20.4 | 11.6 | 14.3 | 11.1 | 13.0 | | 12.9 | 17.2 | |
| Trinidad and Tobago | 7.4 | 5.5 | 9.8 | 9.3 | 9.5 | 10.0 | 10.2 | 9.0 | 10.3 | 9.9 | 11.5 | 11.5 | 9.0 | 10.3 | 14.1 | 16.1 | 21.6 | 15.0 |
| United States of America (the) | 11.8 | 10.9 | 10.1 | 9.3 | 9.2 | 9.3 | 9.1 | 9.0 | 9.3 | 10.1 | 10.2 | 10.3 | 9.7 | 9.2 | 8.6 | 7.9 | 6.4 | 6.6 |
| Uruguay | 57.9 | 49.1 | 45.7 | 46.5 | 39.9 | 35.7 | 33.6 | 31.0 | 32.0 | 28.5 | 24.3 | 22.2 | 21.7 | 20.8 | 19.4 | 21.6 | 21.7 | 20.3 |
| Venezuela | 26.4 | 26.1 | 26.1 | 28.3 | 28.1 | 28.3 | 27.4 | 24.6 | 23.8 | 28.0 | 26.1 | 26.6 | 24.7 | 22.8 | 25.4 | 25.0 | 26.3 | 27.0 |
| Other territories | | | | | | | | | | | | | | | | | | |
| Anguilla | | 57.1 | | | 14.3 | | | | | | | | | | 25.0 | | | |
| Bermuda | 3.7 | 9.1 | 18.2 | 5.5 | 5.4 | 10.5 | 3.4 | 1.7 | 3.3 | | 4.8 | 6.5 | | | 6.3 | | | |
| British Virgin Islands | | | | | | | | | | | | | | | | | 15.0 | |
| Cayman Islands | 11.1 | | 5.0 | 5.0 | 19.0 | 4.5 | | | 8.0 | 7.7 | 11.1 | 10.7 | 6.9 | | 9.7 | | | 8.8 |
| Montserrat | | | 9.1 | 63.6 | 81.8 | 45.5 | 118.2 | 54.5 | 45.5 | 9.1 | 9.1 | | | | | | | 27.3 |
| Netherlands Antilles | | | | | | | | | | | | | | | | | | |
| | | 25.0 | 55.6 | | 44.4 | 20.0 | 120.0 | | | | | | | | | | | |
| Turks and Caicos Islands United States Virgin Islands | 1.0 | 25.0 1.0 | 55.6 2.0 | 3.0 | 1.0 | 1.0 | 2.0 | 5.9 | 4.0 | 3.9 | 3.9 | | | 9.6 | 3.8 | 7.5 | | |

| | | | Number of | | | | | | • | population | · | |
|---|--------|--------|-----------|----------|----------|--------|-------|-------|-------|------------|-------|-------|
| Country | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
| Antigua and Barbuda | | | | 2 | | | | | | 3.0 | | |
| | 5 937 | 5 696 | 5 698 | 5 787 | 5 307 | 5 186 | 17.5 | 16.6 | 16.4 | 16.4 | 14.9 | 14.4 |
| Argentina | 41 | 41 | 37 | 26 | 57 | 28 | 15.2 | 14.9 | 13.2 | 9.1 | 19.6 | 9.5 |
| Bahamas (the) | 71 | 4. | 5, | 20 | 0, | 20 | | | , 0.2 | • | | |
| Barbados | | | | 3 | 5 | 4 | | | | 1.1 | 1.9 | 1.5 |
| Belize | 50 | 36 | 22 | 20 | 48 | | 24.7 | 17.3 | 10.3 | 9.1 | 21.4 | |
| Bolivia | 6 833 | 6 905 | 7 010 | 6 949 | 6 458 | 6 750 | 96.7 | 95.4 | 94.6 | 91.5 | 83.1 | 84.8 |
| Brazil | | 39 167 | 45 004 | 44 501 | 43 490 | 38 809 | | 24.9 | 28.2 | 27.5 | 26.6 | 23.4 |
| Canada | 542 | | | 450 | | | 1.9 | | | 1.5 | | |
| Chile | 2 629 | 1 951 | 1 624 | 1 480 | 1 524 | 1 576 | 19.1 | 13.9 | 11.4 | 10.3 | 10.4 | 10.6 |
| - · · · · | 0.007 | 0.500 | 7.500 | 7 570 | 0.000 | 0.000 | 40.0 | 17.3 | 19.5 | 19.3 | 15.2 | 17.1 |
| Colombia | 6 987 | 6 532 | 7 530 | 7 572 | 6 090 | 6 969 | 18.8 | | | | | |
| Costa Rica | | 230 | 219 | 122 | 578 | 562 | | 6.7 | 6.2 | 3.3 | 15.4 | 14.6 |
| Cuba | 565 | 914 | 834 | 835 | 765 | 744 | 5.2 | 8.4 | 7.6 | 7.6 | 6.9 | 6.7 |
| Dominica | 6 | 8 | 5 | 7 | 5 | 5 | 8.5 | 11.3 | 7.0 | 9.9 | 7.0 | 7.0 |
| Dominican Republic (the) | 2 297 | 3 177 | 2 187 | 3 609 | 2 682 | 2 194 | 30.5 | 41.3 | 28.0 | 45.3 | 33.1 | 26.7 |
| Ecuador | 5 325 | 6 674 | 5 236 | 4 356 | 7 329 | 6 455 | 48.5 | 59.5 | 45.7 | 37.2 | 61.4 | 53.0 |
| El Salvador | 2 471 | 2 144 | | 965 | 882 | 1 071 | 45.5 | 38.6 | | 16.7 | 14.9 | 17.8 |
| Grenada | | 3 | 2 | | 2 | 2 | | 3.3 | 2.2 | | 2.2 | 2.2 |
| Guatemala | 2 128 | 1 994 | 2 368 | 2 308 | 2 224 | 2 255 | 22.5 | 20.5 | 23.7 | 22.5 | 21.1 | 20.9 |
| | F4 | 64 | 9.5 | 71 | 105 | 85 | 6.3 | 7.4 | 10.2 | 8.5 | 12.4 | 10.0 |
| Guyana | 51 | 61 | 85 | 3 524 | 5 497 | 6 442 | 0.3 | 7.4 | 10.2 | 45.8 | 70.3 | 81.0 |
| Haiti | 2 016 | 2 385 | 2 438 | 1 739 | 1 579 | 2 311 | 37.8 | 43.4 | 43.1 | 29.9 | 26.4 | 37.6 |
| Honduras | 2010 | 2 303 | | | | | | | | | | |
| Jamaica | 83 | 61 | 91 | 75 | 71 | 82 | 3.4 | 2.5 | 3.7 | 3.0 | 2.8 | 3.2 |
| Mexico | 8 164 | 9 726 | 9 220 | 8 495 | 15 440 | 6 189 | 9.3 | 10.9 | 10.1 | 9.2 | 16.4 | 6.5 |
| Nicaragua | 1 714 | 1 615 | 1 568 | 1 722 | 1 670 | 1 648 | 41.1 | 37.6 | 35.4 | 37.8 | 35.7 | 34.3 |
| Panama | 1 046 | 748 | 1 066 | 904 | 592 | 1 393 | 41.2 | 28.9 | 40.5 | 33.8 | 21.7 | 50.3 |
| Paraguay | 985 | 873 | 748 | 894 | 895 | 850 | 21.5 | 18.6 | 15.5 | 18.0 | 17.6 | 16.3 |
| Peru | 35 646 | 33 925 | 32 096 | 26 800 | 27 498 | 27 707 | 156.8 | 146.7 | 136.4 | 111.9 | 112.8 | 111.7 |
| Puerto Rico | 117 | | 126 | 110 | 126 | 105 | 3.2 | | 3.4 | 2.9 | 3.3 | 2.8 |
| Saint Kitts and Nevis | 2 | 2 | 4 | 2 | | 3 | 4.8 | 4.9 | 9.8 | 4.9 | | 7.3 |
| Saint Lucia | - | 17 | | | 11 | 12 | | 12.1 | | | 7.5 | 8.1 |
| | | | | | | 3 | 40.0 | | 44.0 | | | 0.0 |
| Saint Vincent and the Grenadines | 11 | | 13 | 20 | 27 | 3 | 10.0 | | 11.6 | 9.5 | 6.6 | 2.6 |
| Suriname Trinidad and Tobago | | 55 | 76 | 39 59 | 27 52 | 98 | | 4.4 | 6.0 | 4.6 | 4.1 | 7.6 |
| Tillidad and Tobago | | JJ | 70 | 33 | 32 | 30 | | 7,7 | 0.0 | 4.0 | | 7.0 |
| United States of America (the) | 16 046 | 14 346 | 8 013 | 7 401 | 6 882 | 6 630 | 6.1 | 5.4 | 3.0 | 2.7 | 2.5 | 2.4 |
| Uruguay | 388 | 381 | 349 | 426 | 423 | 374 | 12.2 | 11.9 | 10.8 | 13.1 | 13.0 | 11.4 |
| Venezuela | 2 849 | 2 738 | 3 056 | 3 195 | 3 234 | 3 450 | 13.6 | 12.8 | 14.0 | 14.3 | 14.2 | 14.8 |
| Other territories | | | | | | | | | | | | |
| Anguilla | | | | | | | | | | | | |
| Bermuda | | | 2 | | | | | | 3.2 | | | |
| British Virgin Islands | | | | 0 | 0 | | | | | | | |
| Cayman Islands | 2 | | | | 0 | 2 | 6.9 | | | | | 5.9 |
| Montserrat | 2 | | | | v | ~ | | | | | | 2.0 |
| Netherlands Antilles | 0 | | | | | | | | | | | |
| | v | | | | | | | | | | | |
| Turks and Caicos Islands United States Virgin Islands | | | _ | 5 | | | | | 1.9 | 4.7 | | |
| | | | | | | | | | | | | |

Notes

Argentina Began DOTS in late 1997, so treatment outcomes for DOTS areas are not yet available. Age unknown for 7 males and 3 females in DOTS areas, 66 males and 48 females in non-DOTS areas.

Dominica Began DOTS in 1998, so treatment outcomes for DOTS areas are not yet available.

Haiti Relapse is not separated from failure.

United States of America (the) Age and sex unknown for 6 cases.

The Eastern Mediterranean

Eastern Mediterranean Region – Summary of TB control policies

| | | | | | DOTS T | echnical E | lements | | |
|------------------------------|--|---------------------------------|-----------------------|---------------------------------------|------------------|------------|-----------------------|---|--------------------------------------|
| Country | Category of the country as of 31/12/97 | National manual ¹ | Training ² | Use of microscopy for diagnosis | SCC ³ | DOT⁴ | Drug availability⁵ | Recording and reporting system ⁶ | DOTS newly implemented in 1998 |
| Afghanistan | 3 | | | | | | | | |
| Bahrain | 1 | | | | | | | | |
| Cyprus | 4 | | | | | | | | Х |
| Djibouti | 4 | | | | | | | | |
| Egypt | 3 | | | | | | | | |
| Iran (Islamic Republic of) | 3 | | | | | | | | |
| Iraq | 3 | | | | | | | | Х |
| Jordan | 4 | | | | | | | | Х |
| Kuwait | 1 | | | | | | | | |
| Lebanon | 1 | | | | | | | | Х |
| Libyan Arab Jamahiriya (the) | 1 | | | | | | | | |
| Morocco | 4 | | | | | | | | |
| Oman | 4 | | | | | | | | |
| Pakistan | 2 | | | | | | | | |
| Qatar | 4 | | | | | | | | |
| Saudi Arabia | 1 | | | | | | | | |
| Somalia | 3 | | | | | | | | |
| Sudan (the) | 3 | | | | | | | | |
| Syrian Arab Republic (the) | 3 | | | | | | | | |
| Tunisia | 1 | | | | | | | | |
| United Arab Emirates (the) | 1 | | | | | | | | |
| West Bank and Gaza | 1 | | | | | | | | |
| Yemen | 3 | | | | | | | | |

- Presence of national manual, or a document issued by the government or an authorized scientific body, including policy recommendations endorsed by WHO with the past two years; or training materials endorsed by WHO or IUATLD
- 3 Short course chemotherapy
- 4 Directly observed treatment
- A regular supply system of all essential anti-tuberculosis drugs and diagnostic materials
 Presence of WHO/IUALTD recommended recording and reporting system showing assessment of treatment results

dark pink fully implemented (more than 90% of country)

light pink implemented in part of country

not implemented grey white unknown

| | | Cou | intry I | nformatio | on (19 | 98) | | | | WH | O TB Co | ntrol | Strate | у (DOT | 'S) | |
|------------------------------|-------------|----------|----------|-----------|--------|--------------------|------------------|-------|-------------|-------|------------|-------|-----------------|---------|-------|-----------------------|
| | | | | | | | | | | | Cov | erage | | | | % new |
| Countries | | | Notified | Cases | | New ss+ | % case | Cate- | Populatio | n | Notified c | ases | % | New ss+ | | ss+ out of all new |
| | Population | All type | s | New ss | + | cases estimated | detection of new | gory | No. | (%) | No. | Rate | cases out of | notifi | | pulm. |
| | | No. | Rate | No. | Rate | estimated | ss+ cases | | | | | | all cases | No. | Rate | cases |
| | а | b | С | d | е | f | d/f | g | h | h/a | i | j | k | 1 | m | n |
| Afghanistan | 21 353 783 | 3 084 | 14.4 | 1 833 | 8.6 | 33 930 | 5.4 | 3 | 2 348 916 | 11.0 | 3 084 | 131.3 | 100.0 | 1 833 | 78.0 | 78.9 |
| Bahrain | 594 545 | 213 | 35.8 | 110 | 18.5 | 145 | 75.9 | 1 | | | | | | | | |
| Cyprus | 771 216 | 47 | 6.1 | 6 | 0.8 | 20 | 30.0 | 4 | 771 216 | 100.0 | 47 | 6.1 | 100.0 | 6 | 0.8 | 20.7 |
| Djibouti | 622 540 | 3 715 | 596.7 | 1 697 | 272.6 | 2 136 | 79.4 | 4 | 622 540 | 100.0 | 3 715 | 596.7 | 100.0 | 1 697 | 272.6 | 90.2 |
| Egypt | 65 977 506 | 12 662 | 19.2 | 4 915 | 7.4 | 10 513 | 46.8 | 3 | 17 813 927 | 27.0 | 3 548 | 19.9 | 28.0 | 1 600 | 9.0 | 63.0 |
| Iran (Islamic Republic of) | 65 758 186 | 11 794 | 17.9 | 5 105 | 7.8 | 18 010 | 28.3 | 3 | 45 373 148 | 69.0 | 7 539 | 16.6 | 63.9 | 3 323 | 7.3 | 65.2 |
| Iraq | 21 800 073 | 30 324 | 139.1 | 8 850 | 40.6 | 15 693 | 56.4 | 3 | 2 180 007 | 10.0 | 914 | 41.9 | 3.0 | 299 | 13.7 | 46.5 |
| Jordan | 6 303 527 | 385 | 6.1 | 110 | 1.7 | 290 | 37.9 | 4 | 6 303 527 | 100.0 | 385 | 6.1 | 100.0 | 110 | 1.7 | 49.1 |
| Kuwait | 1 810 737 | 564 | 31.1 | 185 | 10.2 | 258 | 71.7 | 1 | | | | | | | | |
| Lebanon | 3 191 309 | 730 | 22.9 | 245 | 7.7 | 376 | 65.2 | 1 | | | | | | | | |
| Libyan Arab Jamahiriya (the) | 5 339 135 | 1 575 | 29.5 | | | 516 | | 1 | | | | | | | | |
| Morocco | 27 376 661 | 29 087 | 106.2 | 13 426 | 49.0 | 15 319 | 87.6 | 4 | 27 376 661 | 100.0 | 29 087 | 106.2 | 100.0 | 13 426 | 49.0 | 81.1 |
| Oman | 2 381 924 | 215 | 9.0 | 109 | 4.6 | 149 | 73.2 | 4 | 2 381 924 | 100.0 | 215 | 9.0 | 100.0 | 109 | 4.6 | 80.7 |
| Pakistan | 148 165 652 | 89 599 | 60.5 | 14 974 | 10.1 | 120 413 | 12.4 | 2 | 11 853 252 | 8.0 | 9 495 | 80.1 | 10.6 | 4 145 | 35.0 | 53.8 |
| Qatar | 579 027 | 253 | 43.7 | 68 | 11.7 | . 61 | 111.5 | 4 | 579 027 | 100.0 | 253 | 43.7 | 100.0 | 68 | 11.7 | 49.3 |
| Saudi Arabia | 20 181 178 | 3 235 | 16.0 | 1 644 | 8.1 | 4 217 | 39.0 | 1 | | | | | | | | |
| Somalia | 9 236 563 | 4 071 | 44.1 | 3 121 | 33.8 | 17 974 | 17.4 | 3 | 4 803 013 | 52.0 | 4 071 | 84.8 | 100.0 | 3 121 | 65.0 | 87.6 |
| Sudan (the) | 28 292 290 | 22 762 | 80.5 | 10 791 | 38.1 | 25 629 | 42.1 | 3 | 16 975 374 | 60.0 | 11 306 | 66.6 | 49.7 | 7 809 | 46.0 | 87.5 |
| Syrian Arab Republic (the) | 15 332 717 | 5 342 | 34.8 | 1 593 | 10.4 | 5 750 | 27.7 | 3 | 8 892 976 | 58.0 | 2 178 | 24.5 | 40.8 | 748 | 8.4 | 58.3 |
| Tunisia | 9 335 492 | 2 211 | 23.7 | 1 196 | 12.8 | 1 706 | 70.1 | 1 | | | | | | | | |
| United Arab Emirates (the) | 2 353 122 | 773 | 32.8 | | | 225 | | 1 | | | | | · | | | |
| Yemen | 16 886 755 | 12 383 | 73.3 | 4 896 | 29.0 | 8 444 | 58.0 | 3 | 8 781 113 | 52.0 | 3 296 | 37.5 | 26.6 | 3 004 | 34.2 | 99.8 |
| Other Territories | | | | | | | | | | ' | | | | | | |
| West Bank and Gaza | 1 036 228 | 18 | 1.7 | 8 | 0.8 | 355 | 2.3 | 1 | | | | | | | | |
| Regional Total | 474 680 166 | 235 042 | 49.5 | 74 882 | 15.8 | 282 129 | 26.5 | | 157 056 621 | 33.1 | 79 133 | 50.4 | 33.7 | 41 298 | 26.3 | 76.4 |

| | | Cou | intry l | nformatio | n (19 | 98) | | | | | Other Str | | (non- | DOTS) | | |
|------------------------------|-------------|----------|----------|-----------|-------|--------------------|------------------|-------|-------------|-------|------------|-------|-----------------|-----------|------|-----------------------|
| | | | | | | | | | | | Cove | erage | | | | % new |
| Countries | | | Notified | Cases | | New ss+ | % case detection | Cate- | Populatio | | Notified c | | % | New ss+ o | | ss+ out of all new |
| | Population | All type | s | New ss | + | cases estimated | of new | gory | No. | (%) | No. | Rate | cases out of | | | pulm. |
| | | No. | Rate | No. | Rate | | ss+ cases | | | | | | all cases | No. | Rate | cases |
| | а | b | С | d | е | f | d/f | g | h | h/a | i | j | k | 1 | m | n |
| Afghanistan | 21 353 783 | 3 084 | 14.4 | 1 833 | 8.6 | 33 930 | 5.4 | 3 | | | | | | | | |
| Bahrain | 594 545 | 213 | 35.8 | 110 | 18.5 | 145 | 75.9 | 1 | 594 545 | 100.0 | 213 | 35.8 | 100.0 | 110 | 18.5 | 64.7 |
| Cyprus | 771 216 | 47 | 6.1 | 6 | 0.8 | 20 | 30.0 | 4 | | | | | | | | |
| Djibouti | 622 540 | 3 715 | 596.7 | 1 697 | 272.6 | 2 136 | 79.4 | 4 | | | | | | | | |
| Egypt | 65 977 506 | 12 662 | 19.2 | 4 915 | 7.4 | 10 513 | 46.8 | 3 | 48 163 579 | 73.0 | 9 114 | 18.9 | 72.0 | 3 315 | 6.9 | 51.6 |
| Iran (Islamic Republic of) | 65 758 186 | 11 794 | 17.9 | 5 105 | 7.8 | 18 010 | 28.3 | 3 | 20 385 038 | 31.0 | 4 255 | 20.9 | 36.1 | 1 782 | 8.7 | 61.8 |
| Iraq | 21 800 073 | 30 324 | 139.1 | 8 850 | 40.6 | 15 693 | 56.4 | 3 | 19 620 066 | 90.0 | 29 410 | 149.9 | 97.0 | 8 551 | 43.6 | 39.3 |
| Jordan | 6 303 527 | 385 | 6.1 | 110 | 1.7 | 290 | 37.9 | 4 | | | | | | | | |
| Kuwait | 1 810 737 | 564 | 31.1 | 185 | 10.2 | 258 | 71.7 | 1 | 1 810 737 | 100.0 | 564 | 31.1 | 100.0 | 185 | 10.2 | 65.6 |
| Lebanon | 3 191 309 | 730 | 22.9 | 245 | 7.7 | 376 | 65.2 | 1 | 3 191 309 | 100.0 | 730 | 22.9 | 100.0 | 245 | 7.7 | 50.3 |
| Libyan Arab Jamahiriya (the) | 5 339 135 | 1 575 | 29.5 | | | 516 | | 1 | 5 339 135 | 100.0 | 1 575 | 29.5 | 100.0 | | | |
| Morocco | 27 376 661 | 29 087 | 106.2 | 13 426 | 49.0 | 15 319 | 87.6 | 4 | | | | | | | | |
| Oman | 2 381 924 | 215 | 9.0 | 109 | 4.6 | 149 | 73.2 | 4 | | | | | | | | |
| Pakistan | 148 165 652 | 89 599 | 60.5 | 14 974 | 10.1 | 120 413 | 12.4 | 2 | 136 312 400 | 92.0 | 80 104 | 58.8 | 89.4 | 10 829 | 7.9 | 13.7 |
| Qatar | 579 027 | 253 | 43.7 | 68 | 11.7 | 61 | 111.5 | 4 | | | | | | | | |
| Saudi Arabia | 20 181 178 | 3 235 | 16.0 | 1 644 | 8.1 | 4 217 | 39.0 | 1 | 20 181 178 | 100.0 | 3 235 | 16.0 | 100.0 | 1 644 | 8.1 | 70.9 |
| Somalia | 9 236 563 | 4 071 | 44.1 | 3 121 | 33.8 | 17 974 | 17.4 | 3 | | | | | | | | |
| Sudan (the) | 28 292 290 | 22 762 | 80.5 | 10 791 | 38.1 | 25 629 | 42.1 | 3 | 11 316 916 | 40.0 | 11 456 | | | 2 982 | | |
| Syrian Arab Republic (the) | 15 332 717 | 5 342 | 34.8 | 1 593 | 10.4 | 5 750 | | | 6 439 741 | 42.0 | 3 164 | | | | 13.1 | 43.8 |
| Tunisia | 9 335 492 | 2 211 | 23.7 | 1 196 | 12.8 | 1 706 | 70.1 | 1 | 9 335 492 | | 2 211 | 23.7 | | | 12.8 | 87.7 |
| United Arab Emirates (the) | 2 353 122 | 773 | 32.8 | | | 225 | | 1 | 2 353 122 | | 773 | 1 | | | | |
| Yemen | 16 886 755 | 12 383 | 73.3 | 4 896 | 29.0 | 8 444 | 58.0 | 3 | 8 105 642 | 48.0 | 9 087 | 112.1 | 73.4 | 1 892 | 23.3 | 30.5 |
| Other Territories | | | | | | | | | | | | | | | | |
| West Bank and Gaza | 1 036 228 | 18 | 1.7 | 8 | 0.8 | 355 | 2.3 | 1 | 1 036 228 | 100.0 | 18 | | | | | |
| Regional Total | 474 680 166 | 235 042 | 49.5 | 74 882 | 15.8 | 282 129 | 26.5 | | 294 185 128 | 62.0 | 155 909 | 53.0 | 66.3 | 33 584 | 11.4 | 25.5 |

Regional Profile - EMR cont'd.

| | | | | | | V | VHO . | ГВ Сс | ontrol S | trategy | (DO | TS) | | | | | | |
|------------------------------|------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|-----------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|
| | | | | | | 14:0 | Trea | atmen | nt Outco | omes ir | า 199 | 7 | | | | | | |
| | | | | New | ss+ ca | ses | | | | | | **** | Retrea | atment | cases | 3 | | |
| Countries | Registered | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) | Register -ed | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) |
| | 0 | р | q | r | s | t | и | V | w | х | У | z | aa | ab | ac | ad | ae | af |
| Afghanistan | 2 001 | 43.4 | 39.3 | 5.4 | 8.2 | 1.1 | 1.6 | 0.9 | 44.7 | | | Ī | | | | | | |
| Bahrain | | | | | | | | | | | | | | | | | | |
| Cyprus | | | | | | | | | | | | - | | | | | | |
| Djibouti | 1 904 | 0.2 | 54.5 | 21.9 | 20.0 | 0.9 | 2.5 | | 76.4 | 251 | 0.0 | 39.4 | 13.1 | 37.8 | 2.0 | 6.8 | 0.8 | 52.6 |
| Egypt | 861 | 0.0 | 68.5 | 13.8 | 6.6 | 2.2 | 2.9 | 5.9 | 82.3 | 183 | 0.0 | 47.5 | 4.4 | 13.7 | 14.2 | 6.6 | 13.7 | 51.9 |
| Iran (Islamic Republic of) | 1 579 | 0.8 | 74.6 | 9.8 | 2.6 | 1.5 | 5.1 | 5.6 | 84.4 | 205 | 1.0 | 60.0 | 16.1 | 4.9 | 3.9 | 7.8 | 6.3 | 76.1 |
| Iraq | | | | | | | | | | | | | | | | | | |
| Jordan | | | | | | | | | | | | | | | | | | |
| Kuwait | | | | | | | | | | | | | | | | | | |
| Lebanon | | | | | | | | | | | | | | | | | | |
| Libyan Arab Jamahiriya (the) | | | | | | | | | | | | | | | | | i | |
| Morocco | 14 134 | 0.5 | 73.7 | 9.0 | 6.4 | 1.3 | 2.0 | 7.2 | 82.7 | 1 830 | 2.1 | 63.6 | 8.0 | 10.4 | 5.2 | 4.8 | 5.9 | 71.6 |
| Oman | 120 | 0.0 | 90.0 | 0.8 | | 3.3 | 3.3 | 2.5 | 90.8 | 6 | 0.0 | 50.0 | | | 33.3 | | 16.7 | 50.0 |
| Pakistan | 2 805 | 0.0 | 52.4 | 15.0 | 25.7 | 1.2 | 3.4 | 2.2 | 67.4 | 537 | 0.0 | 37.4 | 19.2 | 25.3 | 5.4 | 8.2 | 4.5 | 56.6 |
| Qatar | 39 | 0.0 | 71.8 | 7.7 | 2.6 | | 5.1 | 12.8 | 79.5 | | | | | | | | | |
| Saudi Arabia | | | | | | | | | | | | | | | | | | |
| Somalia | 2 779 | 0.0 | 83.9 | 6.5 | 3.7 | 1.3 | 3.7 | 0.9 | 90.4 | 68 | 0.0 | 80.9 | 10.3 | 5.9 | | 1.5 | 1.5 | 91.2 |
| Sudan (the) | 7 285 | 0.0 | 46.5 | 23.4 | 16.5 | 3.8 | 4.2 | 5.6 | 69.9 | 741 | 0.0 | 42.8 | 11.5 | 21.7 | 4.6 | 11.7 | 7.7 | 54.3 |
| Syrian Arab Republic (the) | 307 | 0.0 | 85.3 | 2.6 | 3.6 | 2.0 | 3.3 | 3.3 | 87.9 | 50 | 34.0 | 50.0 | | 4.0 | 12.0 | | | 50.0 |
| Tunisia | | | | | | | | | | | | | | | | | | |
| United Arab Emirates (the) | | | | | | | | | | | | | | | | | | |
| Yemen | 2 437 | 0.0 | 74.5 | 6.6 | 10.1 | 1.6 | 3.0 | 4.2 | 81.1 | 165 | 0.0 | 67.3 | 9.1 | 12.1 | 3.6 | 6.1 | 1.8 | 76.4 |
| Other Territories | | | | | | | | | | | | | | | | | | |
| West Bank and Gaza | | | | | | | | | | | | | | | | | | |
| Regional Total | 36 251 | 2.6 | 64.6 | 12.5 | 10.6 | 1.8 | 2.9 | 4.9 | 77.1 | 4 036 | -20.7 | 54.1 | 10.7 | 15.9 | 5.3 | 6.8 | 5.8 | 64.8 |

Regional Profile - EMR cont.

| Regional Profile - EMR cont. | | | | | | | | | | | | | | | | | | |
|------------------------------|------------|------|-------|------------|------------|---------|------|--------|-----------|------------|-----|-------|------------|------------|-------------|------|--------|---------|
| | | | | | | | | | | gy (non-DO | | | | | | | | |
| | | | | | | | | Trea | atment Ou | tcomes in | 199 | | | | | | | |
| | | | | New ss+ ca | ses (Short | Course) | | | | | | | New ss+ ca | ises (Othe | r Regimens) | | | |
| | | | | _ | | | | _ | Treat. | | | | _ | | | | _ | Treat. |
| | Registered | | Cured | Comp. | Def. | Failed | Dead | Trans. | | Registered | | Cured | Comp. | Def. | Failed | Dead | Trans. | Success |
| Countries | | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) |
| | 0 | р | q | r | s | t | u | V | W | х | у | Z | aa | ab | ac | ad | ae | af |
| Afghanistan | | | | | | | | | | | | | | | | | | |
| Bahrain | | | | | | | | | | | | | | | | | | |
| Cyprus | | | | | | | | | | | | | | | | | | |
| Djibouti | | | | | | | | | | | | | | | | | | |
| Egypt | 2 606 | 1.9 | 58.1 | 18.3 | 9.2 | 4.2 | 2.2 | 6.0 | 76.4 | | | | | | | | | |
| Iran (Islamic Republic of) | 3 172 | 2.6 | 67.8 | 14.2 | 2.9 | 2.2 | 5.5 | 4.8 | 82.0 | | | | | | | | | |
| Iraq | 8 164 | 0.0 | 56.0 | 10.9 | 23.0 | 7.0 | 3.0 | 66.9 | | | | | | | | | | |
| Iraq Jordan | 136 | 0.0 | 84.6 | | 5.9 | 2.9 | 5.1 | 1.5 | 84.6 | | | | | | | | | |
| Kuwait | | | | | | | | | | | | | | | | | | |
| Lebanon | 206 | 0.5 | 64.6 | 22.8 | 2.9 | 1.5 | 7.8 | 64.6 | | | | | | | | | | |
| Libyan Arab Jamahiriya (the) | | | | | | | | | | | | | | | | | | |
| Morocco | | | | | | | | | | | | | | | | | | |
| Oman | | | | | | | | | | | | | | | | | | |
| Pakistan | | | | | | | | | | | | | | | | | | |
| Qatar | | | | | | | | | | | | | | | | | | |
| Saudi Arabia | 1 431 | 20.9 | 39.1 | 16.8 | 14.6 | 0.3 | 3.6 | 4.6 | 56.0 | | | | | | | | | |
| Somalia | | | | | | | | | | | | | | | | | | |
| Sudan (the) | 3 600 | 56.1 | 22.0 | 13.9 | 3.3 | 1.3 | 1.5 | 1.9 | 35.9 | | | | | | | | | |
| Syrian Arab Republic (the) | 1 114 | 14.5 | 48.1 | 10.0 | 17.1 | 3.5 | 1.5 | 5.3 | 58.1 | | | | | | | | | |
| Tunisia | 1 099 | 0.8 | 88.7 | 3.7 | 1.1 | 3.0 | 2.6 | 88.7 | | | | | | | | | | |
| United Arab Emirates (the) | | | | | | | | | | 1 | | | | | | | | |
| Yemen | 1 928 | 0.0 | 41.1 | 14.4 | 30.8 | 1.0 | 1.6 | 11.2 | 55.5 | 1 | | | | | | | | |
| Other Territories | | | | | | | | | | | | | | | | | | |
| West Bank and Gaza | | | | | | | | | | | | | | | | | | |
| Regional Tota | 23 456 | 11.2 | 51.2 | 13.1 | 14.6 | 3.8 | 1.8 | 4.3 | 64.3 | | | | | | | | | |

EMR - Notification rates by age and sex, 1998.

| | | | | | MALE | | | | | | | F | EMALE | | | | | | | | ALL | | | | |
|------------------------------|------------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| | Age groups | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total |
| Afghanistan | | 0.6 | 6.5 | 7.5 | 8.8 | 11.7 | 12.9 | 14.0 | 5.2 | 1.0 | 18.6 | 26.0 | 20.2 | 16.6 | 12.7 | 6.4 | 11.6 | 0.8 | 12.4 | 16.5 | 14.3 | 14.1 | 12.8 | 10.1 | 8.3 |
| Bahrain | | 0.0 | 6.4 | 74.6 | 44.6 | 47.1 | 91.0 | 258.3 | 39.5 | 3.4 | 9.0 | 21.8 | 16.1 | 25.9 | 19.8 | 77.3 | 14.1 | 1.7 | 7.7 | 51.6 | 34.6 | 40.4 | 61.6 | 172.0 | 28.6 |
| Cyprus | | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 | 0.0 | 2.9 | 0.5 | 0.0 | 1.8 | 5.6 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.9 | 3.7 | 0.0 | 0.0 | 0.0 | 1.3 | 0.8 |
| Djibouti | | 17.8 | 582.9 | 929.6 | 656.1 | 376.8 | 404.9 | 258.7 | 366.9 | 21.8 | 340.3 | 428.5 | 239.9 | 184.7 | 108.5 | 82.9 | 182.3 | 19.8 | 460.2 | 669.5 | 439.2 | 276.9 | 248.7 | 162.1 | 272.6 |
| Egypt | | 0.4 | 11.4 | 18.7 | 18.4 | 18.2 | 19.2 | 15.2 | 10.3 | 0.5 | 7.8 | 8.6 | 7.3 | 7.6 | 8.5 | 3.0 | 5.0 | 0.4 | 9.7 | 13.8 | 13.0 | 12.9 | 13.6 | 8.4 | 7.7 |
| Iran (Islamic Republic of) | | 0.3 | 5.9 | 10.1 | 11.8 | 12.3 | 26.7 | 43.5 | 7.6 | 0.7 | 8.0 | 8.4 | 9.0 | 14.2 | 32.6 | 40.7 | 8.1 | 0.5 | 6.9 | 9.2 | 10.4 | 13.3 | 29.6 | 42.1 | 7.8 |
| Iraq | | 9.7 | 39.2 | 47.9 | 53.5 | 127.8 | 172.0 | 82.1 | 41.4 | 9.5 | 37.8 | 47.1 | 51.8 | 116.0 | 163.5 | 68.7 | 39.9 | 9.6 | 38.5 | 47.5 | 52.7 | 122.0 | 167.7 | 75.0 | 40.6 |
| Jordan | | 0.0 | 3.2 | 4.8 | 2.4 | 7.2 | 8.4 | 7.3 | 2.6 | 0.0 | 1.1 | 1.3 | 1.1 | 1.8 | 6.0 | 1.1 | 0.9 | 0.0 | 2.2 | 3.1 | 1.8 | 4.5 | 7.2 | 4.1 | 1.7 |
| Kuwait | | 0.0 | 7.8 | 31.1 | 27.7 | 24.8 | 27.7 | 28.4 | 14.3 | 0.0 | 7.4 | 11.2 | 6.9 | 6.6 | 16.6 | 34.6 | 5.8 | 0.0 | 7.6 | 21.6 | 18.1 | 15.9 | 22.9 | 31.2 | 10.2 |
| Lebanon | | 0.2 | 9.0 | 11.2 | 13.9 | 18.4 | 22.4 | 21.2 | 8.7 | 0.6 | 7.7 | 6.9 | 2.8 | 5.8 | 9.1 | 3.2 | 4.3 | 0.4 | 8.3 | 9.1 | 7.6 | 11.6 | 15.2 | 11.5 | 6.5 |
| Libyan Arab Jamahiriya (the) | | | | | | | | | 0.0 | | | | | | | | 0.0 | | | | | | | | 0.0 |
| Morocco | | 2.5 | 76.6 | 112.0 | 105.8 | 88.2 | 97.4 | 99.2 | 63.4 | 4.1 | 55.1 | 51.4 | 40.2 | 41.3 | 55.6 | 53.9 | 34.8 | 3.3 | 66.0 | 82.1 | 72.6 | 64.3 | 74.2 | 74.9 | 49.0 |
| Oman | | 0.0 | 8.1 | 5.6 | 5.6 | 11.9 | 18.0 | 42.2 | 5.5 | 0.6 | 6.4 | 4.3 | 6.4 | 7.9 | 7.2 | 7.1 | 3.5 | 0.3 | 7.2 | 5.0 | 5.9 | 10.5 | 13.1 | 24.7 | 4.6 |
| Pakistan | | 0.2 | 4.4 | 3.9 | 3.9 | 6.8 | 6.6 | 6.2 | 2.8 | 0.5 | 5.5 | 4.9 | 3.5 | 4.6 | 3.1 | 2.2 | 2.8 | 0.3 | 4.9 | 4.4 | 3.7 | 5.8 | 4.9 | 4.2 | 2.8 |
| Qatar | | 0.0 | 26.2 | 38.9 | 7.2 | 13.3 | 14.8 | 28.7 | 13.4 | 1.3 | 11.3 | 8.7 | 9.6 | 8.7 | 41.9 | 64.1 | 8.5 | 0.6 | 19.0 | 28.5 | 7.8 | 12.2 | 20.5 | 39.6 | 11.7 |
| Saudi Arabia | | 0.0 | 3.9 | 9.9 | 5.4 | 5.9 | 9.8 | 22.3 | 4.3 | 0.4 | 4.4 | 7.6 | 4.2 | 5.0 | 8.1 | 14.8 | 3.5 | 0.2 | 4.2 | 8.8 | 5.0 | 5.6 | 9.1 | 18.6 | 3.9 |
| Somalia | | 4.5 | 60.7 | 102.1 | 85.5 | 80.3 | 97.8 | 124.9 | 44.6 | 3.5 | 30.1 | 53.4 | 43.0 | 29.9 | 44.7 | 68.0 | 23.1 | 4.0 | 45.4 | 77.5 | 63.8 | 54.4 | 69.8 | 94.2 | 33.8 |
| Sudan (the) | | 13.9 | 37.8 | 74.4 | 78.1 | 85.0 | 84.9 | 109.2 | 44.8 | 12.0 | 30.7 | 51.5 | 49.2 | 51.6 | 53.8 | 56.4 | 31.5 | 13.0 | 34.3 | 63.1 | 63.5 | 67.8 | 68.8 | 82.1 | 38.1 |
| Syrian Arab Republic (the) | | 0.2 | 20.0 | 25.0 | 15.4 | 23.7 | 19.2 | 23.3 | 12.1 | 0.6 | 12.1 | 8.9 | 6.1 | 12.1 | 6.6 | 8.9 | 5.9 | 0.4 | 16.1 | 17.1 | 10.7 | 17.8 | 12.6 | 15.7 | 9.0 |
| Tunisia | | 0.7 | 13.6 | 27.3 | 26.3 | 31.4 | 35.0 | 37.0 | 17.0 | 0.8 | 8.5 | 8.4 | 7.3 | 11.1 | 16.6 | 10.4 | 6.7 | 0.8 | 11.1 | 17.8 | 16.9 | 21.1 | 25.7 | 23.9 | 11.8 |
| United Arab Emirates (the) | | | | | | | | | | | | | | | | | | | | | | | | | |
| West Bank and Gaza | | | 1.0 | 1.6 | | 9.8 | | 6.3 | 1.0 | | | | 2.8 | | 5.0 | 6.2 | 0.6 | | | | | | | 6.3 | 0.8 |
| Yemen | | 2.0 | 41.9 | 52.4 | 79.6 | 86.1 | 69.2 | 66.4 | 29.8 | 2.9 | 43.7 | 57.3 | 55.7 | 62.7 | 51.8 | 32.7 | 28.2 | 2.4 | 42.8 | 54.6 | 66.8 | 72.1 | 59.3 | 47.5 | 29.0 |
| | EMR | 1.8 | 17.6 | 25.8 | 24.4 | 28.1 | 33.8 | 35.2 | 15.2 | 2.1 | 15.4 | 18.1 | 15.5 | 20.2 | 25.7 | 20.9 | 11.4 | 1.9 | 16.5 | 22.1 | 20.1 | 24.3 | 29.7 | 27.8 | 13.3 |

EMR - Age and sex distribution of smear-positive TB cases in DOTS areas, 1998 (absolute numbers).

| | | | | | MALE | | | | | | | - 1 | EMALE | | | | | | | | ALL | | | | |
|----------------------------|------------|------|-------|-------|-------|-------|-------|----------------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|--------|-------|-------|-------|-------|--------|
| | Age groups | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | <u>></u> 65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total |
| Afghanistan | | 30 | 129 | 128 | 90 | 89 | 64 | 41 | 571 | 45 | 350 | 419 | 194 | 118 | 61 | 20 | 1 207 | 75 | 479 | 547 | 284 | 207 | 125 | 61 | 1 778 |
| Cyprus | | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 4 | 0 | 0 | 0 | 1 | 6 |
| Djibouti | | 23 | 348 | 396 | 191 | 81 | 57 | 23 | 1 119 | 28 | 208 | 197 | 76 | 43 | 17 | 9 | 578 | 51 | 556 | 593 | 267 | 124 | 74 | 32 | 1 697 |
| Egypt | | 19 | 266 | 288 | 235 | 165 | 79 | 70 | 1 122 | 21 | 155 | 108 | 93 | 53 | 32 | 16 | 478 | 40 | 421 | 396 | 328 | 218 | 111 | 86 | 1 600 |
| Iran (Islamic Republic of) | | 22 | 273 | 314 | 250 | 152 | 228 | 406 | 1 645 | 48 | 340 | 271 | 196 | 197 | 299 | 327 | 1 678 | 70 | 613 | 585 | 446 | 349 | 527 | 733 | 3 323 |
| Iraq | | 5 | 69 | 47 | 22 | 16 | 16 | 8 | 183 | 9 | 41 | 28 | 5 | 17 | 7 | 9 | 116 | 14 | 110 | 75 | 27 | 33 | 23 | 17 | 299 |
| Jordan | | 0 | 22 | 26 | 7 | 12 | 10 | 6 | 83 | 0 | 7 | 6 | 3 | 3 | 7 | 1 | 27 | 0 | 29 | 32 | 10 | 15 | 17 | 7 | 110 |
| Morocco | | 116 | 2308 | 2573 | 1744 | 843 | 560 | 527 | 8 671 | 182 | 1600 | 1150 | 679 | 412 | 402 | 330 | 4 755 | 298 | 3 908 | 3 723 | 2 423 | 1 255 | 962 | 857 | 13 426 |
| Oman | | 0 | 18 | 9 | 8 | 14 | 9 | 12 | 70 | 3 | 14 | 6 | 6 | 5 | 3 | 2 | 39 | 3 | 32 | 15 | 14 | 19 | 12 | 14 | 109 |
| Pakistan | | 59 | 633 | 449 | 328 | 335 | 194 | 137 | 2 135 | 159 | 735 | 507 | 260 | 209 | 90 | 50 | 2 010 | 218 | 1 368 | 956 | 588 | 544 | 284 | 187 | 4 145 |
| Qatar | - | 0 | 10 | 17 | 8 | 10 | 4 | 2 | 51 | 1 | 4 | 2 | 3 | 2 | 3 | 2 | 17 | 1 | 14 | 19 | 11 | 12 | 7 | 4 | 68 |
| Somalia | | 99 | 541 | 599 | 337 | 198 | 145 | 126 | 2 045 | 77 | 270 | 321 | 176 | 78 | 74 | 80 | 1 076 | 176 | 811 | 920 | 513 | 276 | 219 | 206 | 3 121 |
| Sudan (the) | | 585 | 781 | 1109 | 820 | 593 | 375 | 328 | 4 591 | 492 | 633 | 750 | 523 | 385 | 257 | 178 | 3 218 | 1 077 | 1 414 | 1 859 | 1 343 | 978 | 632 | 506 | 7 809 |
| Syrian Arab Republic (the) | | 1 | 162 | 127 | 33 | 35 | 13 | 24 | 395 | 10 | 68 | 30 | 15 | 14 | 5 | 5 | 147 | 11 | 230 | 157 | 48 | 49 | 18 | 29 | 542 |
| Yemen | | 37 | 437 | 443 | 314 | 172 | 90 | 71 | 1 564 | 83 | 413 | 404 | 236 | 161 | 94 | 49 | 1 440 | 120 | 850 | 847 | 550 | 333 | 184 | 120 | 3 004 |
| | EMR | 996 | 5 997 | 6 526 | 4 387 | 2 715 | 1 844 | 1 782 | 24 247 | 1 158 | 4 839 | 4 202 | 2 465 | 1 697 | 1 351 | 1 078 | 16 790 | 2 154 | 10 836 | 10 728 | 6 852 | 4 412 | 3 195 | 2 860 | 41 037 |
| | 0/ | 11 | 247 | 26.0 | 101 | 11 2 | 7.6 | 7.2 | 100 | 60 | 200 | 25.0 | 147 | 10.1 | 9.0 | 6.4 | 100 | 6.2 | 26.4 | 26.1 | 167 | 40 B | 70 | 7.0 | 100 |

EMR - Age and sex distribution of smear-positive TB cases in non-DOTS areas, 1998 (absolute numbers).

| | | | | | MALE | | | | | | | F | EMALE | | | | | | | | ALL | | | | |
|------------------------------|------------|------|-------|-------|-------|-------|-------|-----|--------|------|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | Age groups | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total |
| Bahrain | | 0 | 3 | 40 | 36 | 20 | 13 | 22 | 134 | 3 | 4 | 9 | 7 | 5 | 2 | 6 | 36 | 3 | 7 | 49 | 43 | 25 | 15 | 28 | 170 |
| Egypt | | 26 | 495 | 655 | 526 | 310 | 207 | 104 | 2 323 | 39 | 334 | 297 | 198 | 151 | 107 | 28 | 1 154 | 65 | 829 | 952 | 724 | 461 | 314 | 132 | 3 477 |
| Iran (Islamic Republic of) | | 13 | 153 | 178 | 150 | 93 | 135 | 173 | 895 | 39 | 221 | 132 | 111 | 93 | 132 | 195 | 923 | 52 | 374 | 310 | 261 | 186 | 267 | 368 | 1 818 |
| Iraq | | 448 | 810 | 734 | 561 | 897 | 719 | 234 | 4 403 | 417 | 765 | 712 | 537 | 789 | 705 | 223 | 4 148 | 865 | 1 575 | 1 446 | 1 098 | 1 686 | 1 424 | 457 | 8 551 |
| Jordan | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kuwait | | 0 | 14 | 42 | 42 | 20 | 11 | 5 | 134 | 0 | 13 | 14 | 9 | 5 | 5 | 5 | 51 | 0 | 27 | 56 | 51 | 25 | 16 | 10 | 185 |
| Lebanon | | 1 | 27 | 33 | 22 | 19 | 17 | 17 | 136 | 3 | 23 | 20 | 6 | 7 | 8 | 3 | 70 | 4 | 50 | 53 | 28 | 26 | 25 | 20 | 206 |
| Libyan Arab Jamahiriya (the) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pakistan | | | | | | | | | | | | | | | | | | | | | | | | | |
| Saudi Arabia | | 2 | 76 | 140 | 96 | 65 | 45 | 62 | 486 | 16 | 82 | 86 | 32 | 27 | 28 | 40 | 311 | 18 | 158 | 226 | 128 | 92 | 73 | 102 | 797 |
| Sudan (the) | | 220 | 298 | 424 | 313 | 227 | 148 | 125 | 1 755 | 188 | 242 | 286 | 200 | 143 | 99 | 69 | 1 227 | 408 | 540 | 710 | 513 | 370 | 247 | 194 | 2 982 |
| Syrian Arab Republic (the) | | 4 | 173 | 166 | 78 | 58 | 35 | 26 | 540 | 10 | 129 | 69 | 28 | 35 | 13 | 16 | 300 | 14 | 302 | 235 | 106 | 93 | 48 | 42 | 840 |
| Tunisia | | 11 | 134 | 206 | 155 | 108 | 88 | 95 | 797 | 12 | 80 | 65 | 43 | 39 | 43 | 26 | 308 | 23 | 214 | 271 | 198 | 147 | 131 | 121 | 1 105 |
| United Arab Emirates (the) | | | | | | | | | | | | | | | | | | | | | | | | | |
| West Bank and Gaza | | | 1 | 1 | | 2 | | 1 | 5 | | | | 1 | | 1 | 1 | 3 | 0 | 1 | 1 | 1 | 2 | 1 | 2 | 8 |
| Yemen | | 46 | 281 | 255 | 177 | 99 | 70 | 44 | 972 | 32 | 276 | 228 | 164 | 133 | 64 | 23 | 920 | 78 | 557 | 483 | 341 | 232 | 134 | 67 | 1 892 |
| | EMR | 771 | 2 465 | 2 874 | 2 156 | 1 918 | 1 488 | 908 | 12 580 | 759 | 2 169 | 1 918 | 1 336 | 1 427 | 1 207 | 635 | 9 451 | 1 530 | 4 634 | 4 792 | 3 492 | 3 345 | 2 695 | 1 543 | 22 031 |
| | % | 6.1 | 19.6 | 22.8 | 17.1 | 15.2 | 11.8 | 7.2 | 100 | 8.0 | 22.9 | 20.3 | 14.1 | 15.1 | 12.8 | 6.7 | 100 | 6.9 | 21.0 | 21.8 | 15.9 | 15.2 | 12.2 | 7.0 | 100 |

EMR - Number of tuberculosis cases notified, 1981-1998

| Country | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
|------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| Afghanistan | 71 554 | 41 752 | 52 502 | 18 784 | 10 742 | 14 351 | 18 091 | 16 051 | 14 386 | 4 332 | 23 067 | | | | | | 1 290 | 3 084 |
| Bahrain | 262 | 156 | 232 | 208 | 194 | 156 | 120 | 142 | 122 | 117 | 142 | 140 | 114 | | 115 | 156 | 154 | 213 |
| Cyprus | 69 | 86 | 73 | 39 | 61 | 48 | 35 | 39 | 23 | 29 | 43 | 39 | 37 | 37 | 36 | 24 | 47 | 47 |
| Djibouti | 2 265 | 671 | | 1 489 | 2 262 | 1 864 | 1 978 | 2 030 | 2 040 | 2 100 | 2 900 | 2 884 | 3 489 | 3 311 | | 3 071 | 3 727 | 3 715 |
| Egypt | 1 306 | 1 805 | 1 932 | 1 572 | 1 308 | 1 209 | 22 063 | 1 378 | 1 492 | 2 142 | 3 634 | 8 876 | 3 426 | 3 911 | 34 941 | 12 338 | 13 971 | 12 662 |
| Iran (Islamic Republic of) | 11 728 | 9 509 | 8 589 | 10 493 | 8 728 | 8 032 | 10 034 | 9 967 | 12 005 | 9 255 | 14 246 | 14 121 | 20 569 | 13 021 | 29 491 | 14 189 | 12 659 | 11 794 |
| Iraq | 10 614 | 7 741 | 6 970 | 6 807 | 6 485 | 6 846 | 6 517 | 6 504 | 8 032 | 14 684 | | | 18 553 | 19 733 | 26 950 | 29 196 | 26 607 | 30 324 |
| Jordan | 646 | 860 | 856 | 672 | 769 | 592 | 537 | 553 | 484 | 439 | 390 | 504 | 427 | 443 | 504 | 474 | 407 | 385 |
| Kuwait | 819 | 880 | 855 | 812 | 717 | 611 | 540 | 480 | 468 | 277 | 330 | 282 | 217 | 237 | 336 | 400 | 528 | 564 |
| Lebanon | 67 | 75 | 284 | 410 | 1 943 | 2 257 | 2 478 | | | | 884 | 884 | | 940 | 983 | 836 | 701 | 730 |
| Libyan Arab Jamahiriya (the) | 481 | 512 | 610 | 357 | 325 | 276 | 331 | 416 | 265 | 442 | 239 | 1 164 | | | 1 440 | 1 282 | | 1 575 |
| Morocco | 28 637 | 28 095 | 26 944 | 22 279 | 26 790 | 27 553 | 27 159 | 25 717 | 26 756 | 27 658 | 27 638 | 25 403 | 27 626 | 30 316 | 29 829 | 31 771 | 30 227 | 29 087 |
| Oman | 928 | 897 | 802 | 843 | 861 | 1 265 | 616 | 477 | 478 | 482 | 442 | 367 | 281 | 304 | 276 | 222 | 235 | 215 |
| Pakistan | 324 576 | 326 492 | 117 739 | 91 572 | 111 419 | 149 004 | 179 480 | 194 323 | 170 562 | 156 759 | 194 323 | | 73 175 | | 13 142 | 4 307 | | 89 599 |
| Qatar | 213 | 172 | 206 | 203 | 250 | 220 | 248 | 223 | 191 | 184 | 195 | | 200 | | 304 | 257 | 212 | 253 |
| Saudi Arabia | 8 263 | 8 529 | 7 551 | 7 163 | 3 966 | 3 696 | 3 029 | 2 433 | 2 583 | 2 415 | 2 221 | 2 016 | 2 386 | 2 518 | | | 3 138 | 3 235 |
| Somalia | | | 2 838 | 2 719 | 2 722 | 3 079 | 7 322 | 2 728 | 1 323 | | | | | 2 023 | 2 883 | 3 251 | 4 116 | 4 071 |
| Sudan (the) | 47 431 | | | | 1 509 | 2 460 | 800 | 693 | 701 | 212 | 16 423 | 19 503 | 37 516 | 23 178 | 11 084 | 20 280 | 11 666 | 22 762 |
| Syrian Arab Republic (the) | 1 908 | 1 838 | 1 867 | 2 111 | 2 163 | 3 942 | 4 290 | 4 952 | 5 504 | 6 018 | 5 651 | 5 437 | | 5 127 | 4 404 | 5 200 | 4 951 | 5 342 |
| Tunisia | 2 316 | 2 554 | 3 062 | 2 501 | 2 510 | 2 487 | 2 272 | 2 309 | 2 403 | 2 054 | 2 064 | 2 164 | 2 565 | 2 376 | 2 383 | 2 387 | | 2 211 |
| United Arab Emirates (the) | 638 | 597 | 507 | 534 | 568 | 464 | 818 | 339 | 308 | 285 | 234 | 227 | | 426 | | 507 | | 773 |
| Yemen | | | | | | | | | | | | | | | 14 428 | 14 364 | 12 013 | 12 383 |
| Other territories | | | | | | | | | | | | | | | | | | |
| West Bank and Gaza | 139 | 136 | 136 | 123 | 113 | 63 | 82 | 85 | 145 | 64 | 89 | 97 | 72 | 146 | 77 | 40 | | 18 |
| Total | 514 860 | 433 357 | 234 555 | 171 691 | 186 405 | 230 475 | 288 840 | 271 839 | 250 271 | 229 948 | 295 155 | 84 108 | 190 653 | 108 047 | 173 606 | 144 552 | 126 649 | 235 042 |

EMR - Case notification rates (per 100 000 population), 1981-1998

| Country | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Afghanistan | 451.1 | 268.5 | 345.9 | 126.8 | 74.0 | 100.4 | 127.9 | 113.7 | 100.5 | 29.4 | 148.9 | | | | | | 6.2 | 14.4 |
| Bahrain | 72.6 | 41.7 | 60.0 | 52.0 | 46.9 | 36.4 | 27.1 | 30.9 | 25.7 | 23.9 | 28.2 | 27.0 | 21.4 | | 20.6 | 27.4 | 26.4 | 35.8 |
| Cyprus | 11.2 | 13.8 | 11.6 | 6.1 | 9.4 | 7.3 | 5.3 | 5.9 | 3.4 | 4.3 | 6.2 | 5.5 | 5.1 | 5.1 | 4.8 | 3.2 | 6.2 | 6.1 |
| Djibouti | 753.3 | 208.8 | | 406.0 | 578,3 | 447.5 | 446.8 | 433.0 | 413.1 | 406.2 | 538.9 | 517.5 | 607.6 | 562.4 | | 503.5 | 604.3 | 596.7 |
| Egypt | 2.9 | 3.9 | 4.1 | 3.2 | 2.6 | 2.4 | 42.1 | 2.6 | 2.7 | 3.8 | 6.3 | 15.1 | 5.7 | 6.4 | 56.1 | 19.4 | 21.6 | 19.2 |
| ran (Islamic Republic of) | 28.8 | 22.4 | 19.5 | 22.9 | 18.3 | 16.2 | 19.6 | 18.8 | 21.9 | 16.4 | 24.7 | 23.9 | 34.2 | 21.3 | 47.3 | 22.4 | 19.6 | 17.9 |
| raq | 79.0 | 55.8 | 48.6 | 46.0 | 42.3 | 43.2 | 39.6 | 38.2 | 45.7 | 81.2 | | | 96.3 | 100.4 | 134.1 | 141.7 | 125.6 | 139.1 |
| Jordan | 20.7 | 25.5 | 23.4 | 17.2 | 18.7 | 13.9 | 12.3 | 12.5 | 10.8 | 9.5 | 8.1 | 10.0 | 8.1 | 8.0 | 8.8 | 8.0 | 6.6 | 6.1 |
| Kuwait | 56.8 | 58.5 | 54.6 | 49.6 | 41.7 | 33.5 | 27.8 | 23.4 | 22.0 | 12.9 | 15.8 | 14.2 | 11.7 | 13.5 | 19.9 | 23.7 | 30.5 | 31.1 |
| ebanon | 2.5 | 2.8 | 10.6 | 15.3 | 72.8 | 85.5 | 95.4 | | | | 33.9 | 32.8 | | 32.2 | 32.7 | 27.1 | 22.3 | 22.9 |
| ibyan Arab Jamahiriya (the) | 15.1 | 15.3 | 17.5 | 9.8 | 8.6 | 7.0 | 8.2 | 10.0 | 6.2 | 10.0 | 5.3 | 25.1 | | | 29.0 | 25.2 | | 29.5 |
| forocco | 144.5 | 138.6 | 130.0 | 105.2 | 123.8 | 124.6 | 120.3 | 111.6 | 113.9 | 115.6 | 113.5 | 102.7 | 109.9 | 118.7 | 114.9 | 120.3 | 112.4 | 106.2 |
| Oman | 78.3 | 72.2 | 61.7 | 62.0 | 60.4 | 84.8 | 39.4 | 29.1 | 27.9 | 27.0 | 23.8 | 19.0 | 14.0 | 14.6 | 12.8 | 10.0 | 10.2 | 9.0 |
| Pakistan | 368.5 | 358.4 | 124.8 | 93.7 | 110.1 | 142.3 | 165.6 | 173.5 | 147.5 | 131.6 | 158.5 | | 56.6 | | 9.6 | 3.1 | | 60.5 |
| Qatar | 85.2 | 62.7 | 68.4 | 61.6 | 69.9 | 57.0 | 60.0 | 50.7 | 41.1 | 37.9 | 38.8 | | 37.9 | | 55.5 | 46.0 | 37.3 | 43.7 |
| Saudi Arabia | 81.3 | 79.4 | 66.5 | 59.8 | 31.4 | 27.7 | 21.5 | 16.5 | 16.7 | 15.1 | 13.4 | 11.9 | 13.8 | 14.2 | | | 16.1 | 16.0 |
| Somalia | | | 45.1 | 42.5 | 41.6 | 45.5 | 104.0 | 37.2 | 17.4 | | | | | 25.2 | 35.2 | 38.4 | 46.7 | 44.1 |
| Sudan (the) | 246.5 | | | | 7.0 | 11.2 | 3.6 | 3.0 | 3.0 | 0.9 | 66.8 | 77.8 | 146.7 | 8.88 | 41.6 | 74.7 | 42.1 | 80.5 |
| Syrian Arab Republic (the) | 21.2 | 19.7 | 19.3 | 21.1 | 20.8 | 36.6 | 38.4 | 42.7 | 45.9 | 48.6 | 44.3 | 41.4 | | 37.1 | 31.0 | 35.7 | 33.1 | 34.8 |
| Tunisia | 35.0 | 37.6 | 43.9 | 34.9 | 34.2 | 33.1 | 29.6 | 29.5 | 30.1 | 25.2 | 24.8 | 25.5 | 29.7 | 27.0 | 26.6 | 26.3 | | 23.7 |
| United Arab Emirates (the) | 56.6 | 48.1 | 37.5 | 36.7 | 36.6 | 28.3 | 47.6 | 18.9 | 16.6 | 14.8 | 11.8 | 11.1 | | 19.7 | | 22.4 | | 32.8 |
| 'emen | | | | | | | | | | | | | | | 96.0 | 91.6 | 73.7 | 73.3 |
| Other territories | | | | | | | | | | | | | | | | | | |
| West Bank and Gaza | | | | | | | | | | | | | | | 8.5 | 4.2 | | 1.7 |
| EMR | 174 | 141.7 | 74.4 | 52.8 | 55.6 | 66.7 | 81.1 | 74.1 | 66.3 | 59.2 | 74.1 | 20.6 | 45.5 | 25.2 | 39.4 | 32.0 | 27.3 | 49.5 |
| | | | | | | | | | | | | | | | | | | |

EMR - New smear-positive cases

| | | | Number of | cases | | | | Rate (| per 100 000 | population | 1) | |
|------------------------------|--------|--------|-----------|--------|--------|--------|-------|--------|-------------|------------|-------|-------|
| Country | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
| Afghanistan | | | | | 618 | 1 833 | | | | | 3.0 | 8.6 |
| Bahrain | 82 | | 16 | 121 | 110 | 110 | 15.4 | | 2.9 | 21.2 | 18.9 | 18.5 |
| Cyprus | | | 12 | 3 | 19 | 6 | | | 1.6 | 0.4 | 2.5 | 0.8 |
| Djibouti | 1 668 | 1 743 | | 1 796 | 1 905 | 1 697 | 290.5 | 296.1 | | 294.5 | 308.9 | 272.6 |
| Egypt | | 1 811 | 8 803 | 5 084 | 5 469 | 4 915 | | 3.0 | 14.1 | 8.0 | 8.4 | 7.4 |
| Iran (Islamic Republic of) | | 4 615 | 9 324 | 5 373 | 5 253 | 5 105 | | 7.5 | 15.0 | 8.5 | 8.1 | 7.8 |
| Iraq | 5 240 | 5 781 | 11 553 | 10 240 | 8 001 | 8 850 | 27.2 | 29.4 | 57.5 | 49.7 | 37.8 | 40.6 |
| Jordan | 173 | 161 | 187 | 170 | 126 | 110 | 3.3 | 2.9 | 3.3 | 2.9 | 2.1 | 1.7 |
| Kuwait | 148 | 155 | 175 | 153 | 201 | 185 | 7.9 | 8.8 | 10.4 | 9.1 | 11.6 | 10.2 |
| Lebanon | | 148 | 197 | 198 | 206 | 245 | | 5.1 | 6.5 | 6.4 | 6.6 | 7.7 |
| Libyan Arab Jamahiriya (the) | | | | 515 | | | | | | 10.1 | | |
| Morocco | | | 14 171 | 14 278 | 14 134 | 13 426 | | | 54.6 | 54.0 | 52.6 | 49.0 |
| Oman | 123 | 135 | 135 | 108 | 120 | 109 | 6.1 | 6.5 | 6.3 | 4.8 | 5.2 | 4.6 |
| Pakistan | 11 020 | | 2 578 | 1 849 | | 14 974 | 8.5 | | 1.9 | 1.3 | | 10.1 |
| Qatar | | | 59 | 43 | 39 | 68 | | | 10.8 | 7.7 | 6.9 | 11.7 |
| Saudi Arabia | 800 | | | | 1 568 | 1 644 | 4.6 | | | | 8.0 | 8.1 |
| Somalia | | 1 168 | 1 739 | 2 318 | 3 097 | 3 121 | | 14.5 | 21.2 | 27.4 | 35.1 | 33.8 |
| Sudan (the) | | 3 728 | 6 280 | 8 978 | 6 095 | 10 791 | | 14.3 | 23.6 | 33.1 | 22.0 | 38.1 |
| Syrian Arab Republic (the) | | | 1 295 | 1 523 | 1 402 | 1 593 | | | 9.1 | 10.5 | 9.4 | 10.4 |
| Tunisia | 1 006 | 983 | 1 243 | 1 005 | | 1 196 | 11.6 | 11.2 | 13.9 | 11.1 | | 12.8 |
| United Arab Emirates (the) | | | | | | | | | | | | |
| Yemen | | | 3 681 | 4 371 | 4 717 | 4 896 | | | 24.5 | 27.9 | 29.0 | 29.0 |
| Other territories | | | | | | | | | | | | |
| West Bank and Gaza | | | 9 | 24 | | 8 | | | 1.0 | 2.5 | | 8.0 |
| Total | 20 260 | 20 428 | 61 457 | 58 150 | 53 080 | 74 882 | 4.8 | 4.8 | 13.9 | 12.9 | 11.5 | 15.8 |

Notes

Afghanistan Treatment outcomes are for new and retreatment cases combined.

Iraq Began DOTS in 1998, so treatment outcomes for DOTS areas are not yet available. Notification data from DOTS areas are for quarters 2-4 only.

Jordan Began DOTS in 1998, so treatment outcomes for DOTS areas are not yet available.

Kuwait Classified as DOTS country in this report on the basis of promised treatment results that, in the end, did not materialise.

Lebanon Began DOTS in 1998, so treatment outcomes for DOTS areas are not yet available. Cure not distinguished from completed treatment.

Libyan Arab Jamahiriya (the) No report submitted; minimal official notification data obtained by other means.

Pakistan Data are incomplete, and do not include Punjab.

United Arab Emirates (the) No report submitted; minimal official notification data obtained by other means.

Europe

Updated information will be available later in 2000 from:

WHO Collaborating Centre for the Surveillance of Tuberculosis in Europe, CESES
Hôpital National de Saint-Maurice
14 rue de Val d'Osne
94410 Saint-Maurice
France

European Region – Summary of TB control policies

| | | | | | DOTS 1 | Technical El | ements | | |
|---------------------------------------|--|---------------------------------|-----------------------|---------------------------------|------------------|------------------|-----------------------------------|---|--------------------------------------|
| Country | Category of the country as of 31/12/97 | National manual ¹ | Training ² | Use of microscopy for diagnosis | SCC ³ | DOT ⁴ | Drug availability ⁵ | Recording and reporting system ⁶ | DOTS newly implemented in 1998 |
| Albania | 1 | | | | | | | | |
| Andorra | 4 | | | | | | | | |
| Armenia | 3 | | | | | | | | |
| Austria | 1 | | | | | | | | |
| Azerbaijan | 3 | | | | | | | | |
| Belarus | 1 | | | | | | | | |
| Belgium | 1 | | | | | | | | |
| Bosnia and Herzegovina | 3 | | | | | | | | |
| Bulgaria | 1 | | | | | | | | |
| Croatia | 1 | | | | | | | | |
| | | | | | | | | | |
| Czech Republic (the) | 4 | | | | | | | | Х |
| Denmark | 1 | | | | | | | | |
| Estonia | 1 | | | | | | | | |
| Finland | 1 | | | | | | | | |
| France | 0 | | | | | | | | |
| Georgia | 4 | | | | | | | | |
| Germany | 1 | | | | | | | | |
| Greece | 1 | | | | | | | | |
| Hungary | 1 | | | | | | | | |
| Iceland | 5 | | | | | | | | |
| Ireland | 1 | | | | | | | | |
| Israel | 4 | | | | | | | | |
| Italy | 3 | | | | | | | | |
| Kazakhstan | 2 | | | | | | | | X |
| Kyrgyzstan | 4 | | | | | | | | · · · |
| Latvia | 4 | | | | | | | | |
| Lithuania | 1 | | | | | | | | |
| Luxembourg | 1 | | | | | | | | |
| Malta | 4 | | | | | | | | |
| Monaco | 5 | | | | | | | | |
| Netherlands (the) | 4 | | | | | | | | |
| | 4 | | | | | | | | |
| Norway | | | | | | | | | |
| Poland | 2 | | | | | | | | Х |
| Portugal | 4 | | | | | | | | |
| Republic of Moldova (the) | 1 | | | | | | | | |
| Romania | 4 | | | | | | | | |
| Russian Federation (the) | 2 | | | | | | | | |
| San Marino | 5 | | | | | | | | |
| Slovakia | 4 | | | | | | | | |
| Slovenia | 4 | | | | | | | | |
| Spain | 1 | | | | | | | | |
| Sweden | 5 | | | | | | | | |
| Switzerland | 1 | | | | | | | | |
| Tajikistan | 1 | | | | | | | | |
| The former Yugoslav Republic of Maced | lonia 1 | | | | | | | | |
| Turkey | 1 | | | | | | | | |
| Turkmenistan | 1 | | | | | | | | |
| Ukraine | 1 | | | | | | | | |
| United Kingdom of Great Britain | | | | | | | | | |
| and Northern Ireland (the) | 1 | | | | | | | | |
| Uzbekistan | 2 | | | | | | | | Х |
| Yugoslavia | 1 | | | | | | | | ^ |
| Tugostavia | 1 | | | | | | | | |

- 1 Presence of national manual, or a document issued by the government or an authorized scientific body, including policy recommendations endorsed by WHO
- 2 "WHO standard" training course on management of TB control programmes has been carried out within the past two years; or training materials endorsed by WHO or IUATLD
- 3 Short course chemotherapy
- 4 Directly observed treatment
- $5\quad \text{A regular supply system of all essential anti-tuberculosis drugs and diagnostic materials}$
- 6 Presence of WHO/IUALTD recommended recording and reporting system showing assessment of treatment results

dark pink fully implemented (more than 90% of country)

light pink implemented in part of country

not implemented grey white unknown

| | | Cou | ıntry l | nformatio | on (19 | 98) | | | | WH | O TB Co | ntrol | Strate | y (DOT | S) | |
|------------------------|------------|----------|----------|-----------|--------|--------------------|------------------|-------|------------|-------|-------------|-------|-----------------|---------|------|-----------------------|
| | | | | | | | | | | | Cove | erage | | | | % new |
| Countries | | | Notified | Cases | | New ss+ | | Cate- | Populatio | n | Notified ca | ases | % | New ss+ | | ss+ out of all new |
| | Population | All type | es | New ss- | + | cases estimated | detection of new | gory | No. | (%) | No. | Rate | cases out of | notifi | ed | pulm. |
| | | No. | Rate | No. | Rate | esumated | ss+ cases | | | | | | all cases | No. | Rate | cases |
| | а | b | С | d | е | f | d/f | g | h | h/a | i | j | k | 1 | m | n |
| Albania | 3 119 089 | 694 | 22.3 | 212 | 6.8 | 425 | 49.9 | 1 | | | | | | | | |
| Andorra | 76 000 | 8 | 10.5 | 1 | 1.3 | 8 | 12.2 | 4 | 76 000 | 100.0 | 8 | 10.5 | 100.0 | 1 | 1.3 | 16.7 |
| Armenia | 3 536 449 | 1 381 | 39.1 | 475 | 13.4 | 725 | 65.5 | 3 | 2 829 159 | 80.0 | 1 230 | 43.5 | 89.1 | 387 | 13.7 | 41.7 |
| Austria | 8 139 937 | 1 268 | 15.6 | | | 615 | | 1 | | | | | | | | |
| Azerbaijan | 7 668 715 | 4 672 | 60.9 | 727 | 9.5 | 1 997 | 36.4 | 3 | 920 246 | 12.0 | 338 | 36.7 | 7.2 | 161 | 17.5 | 58.5 |
| Belarus | 10 314 539 | 6 150 | 59.6 | 5 047 | 48.9 | 3 021 | 167.1 | 1 | | | | | | | | |
| Belgium | 10 140 775 | 1 055 | 10.4 | 418 | 4.1 | 731 | 57.2 | 1 | | | | | | | | |
| Bosnia and Herzegovina | 3 675 480 | 2 711 | 73.8 | 640 | 17.4 | 1 444 | 44.3 | 3 | 992 380 | 27.0 | 1 850 | 186.4 | 68.2 | 481 | 48.5 | 31.0 |
| Bulgaria | 8 335 580 | 4 559 | 54.7 | 1 325 | 15.9 | 1 608 | 82.4 | 1 | | | | | | | | |
| Croatia | 4 480 743 | 2 118 | 47.3 | 1 129 | 25.2 | 1 294 | 87.2 | 1 | | | | | | | | |
| Czech Republic (the) | 10 281 729 | 1 758 | 17.1 | 545 | 5.3 | 905 | 60.2 | 4 | 10 281 729 | 100.0 | 1 758 | 17.1 | 100.0 | 545 | 5.3 | 36.9 |
| Denmark | 5 269 719 | 506 | 9.6 | 132 | 2.5 | 257 | 51.4 | 1 | | | | | | - | | |
| Estonia | 1 429 417 | 820 | 57.4 | 299 | 20.9 | 324 | 92.3 | 1 | | | | | | | | |
| Finland | 5 153 847 | 508 | 9.9 | 188 | 3.6 | 285 | 66.0 | 1 | | | | | | | | |
| France | 58 683 488 | | | | | 4 899 | | 0 | | | | | | | | |
| Georgia | 5 058 518 | 4 876 | 96.4 | 547 | 10.8 | 1 625 | 33.7 | 4 | 5 007 933 | 99.0 | 4 876 | 97.4 | 100.0 | 547 | 10.9 | 18.0 |
| Germany | 82 133 337 | 10 440 | 12.7 | 3 124 | 3.8 | 5 353 | 58.4 | 1 | | | | | | | | |
| Greece | 10 600 283 | 1 079 | 10.2 | 313 | 3.0 | 1 139 | 27.5 | 1 | | | | | | | | |
| Hungary | 10 116 299 | 3 489 | 34.5 | 667 | 6.6 | 2 111 | 31.6 | 1 | | | | | | | | |
| Iceland | 276 049 | 16 | 5.8 | 2 | 0.7 | 5 | 40.0 | 5 | | | | | | | | |
| Ireland | 3 681 073 | 365 | 9.9 | 116 | 3.2 | 357 | 32.5 | 1 | | | | | | | | |
| Israel | 5 984 047 | 625 | 10.4 | 221 | 3.7 | 212 | 104.2 | 4 | 5 984 047 | 100.0 | 625 | 10.4 | 100.0 | 221 | 3.7 | 48.3 |
| Italy | 57 369 144 | 5 727 | 10.0 | 2 361 | 4.1 | 2 518 | 93.8 | 3 | 12 047 520 | 21.0 | 818 | 6.8 | 14.3 | 321 | 2.7 | 46.2 |
| Kazakhstan | 16 318 584 | 20 623 | 126.4 | 6 180 | 37.9 | 7 839 | 78.8 | 2 | 652 743 | 4.0 | 847 | 129.8 | 4.1 | 314 | 48.1 | 43.7 |
| Kyrgyzstan | 4 642 924 | 5 706 | 122.9 | 830 | 17.9 | 2 006 | 41.4 | 4 | 4 642 924 | 100.0 | 3 214 | 69.2 | 56.3 | 830 | 17.9 | 30.9 |
| Latvia | 2 424 397 | 1 970 | 81.3 | 668 | 27.6 | 903 | 74.0 | 4 | 2 424 397 | 100.0 | 1 970 | 81.3 | 100.0 | 668 | 27.6 | 43.7 |
| Lithuania | 3 693 679 | 3 016 | 81.7 | 787 | 21.3 | 1 330 | 59.2 | 1 | | | | | | | | |
| Luxembourg | 421 856 | 44 | 10.4 | 24 | 5.7 | 30 | 80.0 | 1 | | | | | | | | |
| Malta | 383 677 | 16 | 4.2 | 6 | 1.6 | 13 | 46.2 | 4 | 383 677 | 100.0 | 16 | 4.2 | 100.0 | 6 | 1.6 | 50.0 |
| Monaco | 33 000 | | | | | | | 5 | | | | | | | | |
| Netherlands (the) | 15 678 486 | 1 212 | 7.7 | 254 | 1.6 | 699 | 36.3 | 4 | 15 678 486 | 100.0 | 1 212 | 7.7 | 100.0 | 254 | 1.6 | 34.2 |
| Norway | 4 419 091 | 223 | 5.0 | 49 | 1.1 | 112 | 43.8 | 4 | 4 419 091 | 100.0 | 223 | 5.0 | 100.0 | 49 | 1.1 | 34.3 |
| Poland | 38 718 148 | 13 302 | 34.4 | 3 502 | 9.0 | 7 817 | 44.8 | 2 | 1 935 907 | 5.0 | 364 | 18.8 | 2.7 | 132 | 6.8 | 44.1 |

| | | Cou | ıntry l | nformatio | on (19 | 98) | | | | WH | O TB Co | ntrol | Strate | y (DOT | S) | |
|--|-------------|----------|----------|-----------|--------|--------------------|------------------|-------|-------------|-------|------------|-------|-----------------|---------|------|-----------------------|
| | | | | | | | | | | | Cove | erage | | | | % new |
| Countries | | | Notified | Cases | | New ss+ | % case | Cate- | Populatio | n | Notified c | ases | % | New ss+ | 1 | ss+ out of all new |
| | Population | All type | s | New ss | + | cases estimated | detection of new | gory | No. | (%) | No. | Rate | cases out of | notifie | | pulm. |
| | | No. | Rate | No. | Rate | Commence | ss+ cases | | | | | | all cases | No. | Rate | cases |
| | а | ь | С | d | е | f | d/f | g | h | h/a | i | j | k | 1 | m | n |
| Portugal | 9 868 982 | 5 260 | 53.3 | 2 016 | 20.4 | 2 429 | 83.0 | 4 | 9 868 982 | 100.0 | 5 260 | 53.3 | 100.0 | 2 016 | 20.4 | 57.2 |
| Republic of Moldova (the) | 4 378 058 | 2 625 | 60.0 | 477 | 10.9 | 1 467 | 32.5 | 1 | | | | | | | | |
| Romania | 22 474 175 | 25 623 | 114.0 | 10 841 | 48.2 | 12 237 | 88.6 | 4 | 22 474 175 | 100.0 | 25 623 | 114.0 | 100.0 | 10 841 | 48.2 | 57.6 |
| Russian Federation (the) | 147 433 600 | 121 434 | 82.4 | 42 219 | 28.6 | 70 055 | 60.3 | 2 | 7 371 680 | 5.0 | 1 771 | 24.0 | 1.5 | 683 | 9.3 | 48.3 |
| San Marino | 26 000 | | | | | | | 5 | 26 000 | 100.0 | | | | | | |
| Slovakia | 5 377 162 | 1 117 | 20.8 | 303 | 5.6 | 835 | 36.3 | 4 | 5 377 162 | 100.0 | 1 117 | 20.8 | 100.0 | 303 | 5.6 | 37.6 |
| Slovenia | 1 992 600 | 424 | 21.3 | 157 | 7.9 | 259 | 60.6 | 4 | 1 992 600 | 100.0 | 424 | 21.3 | 100.0 | 157 | 7.9 | 48.5 |
| Spain | 39 627 632 | 8 927 | 22.5 | 1 906 | 4.8 | 10 225 | 18.6 | 1 | | | | | | | | |
| Sweden | 8 874 974 | 447 | 5.0 | 97 | 1.1 | 194 | 50.0 | 5 | | | | | | | | |
| Switzerland | 7 299 100 | 749 | 10.3 | 165 | 2.3 | 348 | 47.4 | 1 | | | | | | | | |
| Tajikistan | 6 015 392 | 2 448 | 40.7 | 435 | 7.2 | 2 378 | 18.3 | 1 | | | | | | | | |
| The former Yugoslav Republic of Macedonia | 1 998 776 | 620 | 31.0 | 179 | 9.0 | 461 | 38.8 | 1 | | | | | | | | |
| Turkey | 64 479 315 | 22 509 | 34.9 | 3 692 | 5.7 | 11 703 | 31.5 | 1 | | | | | | | | |
| Turkmenistan | 4 308 688 | 3 839 | 89.1 | 790 | 18.3 | 1 436 | 55.0 | 1 | | | | | | | | |
| Ukraine | 50 861 259 | 31 318 | 61.6 | 10 586 | 20.8 | 14 578 | 72.6 | 1 | | | | | | | | |
| United Kingdom of Great Britain and N. Ireland | 58 648 658 | 5 658 | 9.6 | 1 342 | 2.3 | 4 859 | 27.6 | 1 | | | | | | | | |
| Uzbekistan | 23 574 250 | 14 558 | 61.8 | 3 504 | 14.9 | 8 589 | 40.8 | 2 | 235 743 | 1.0 | 118 | 50.1 | 0.8 | 40 | 17.0 | 48.2 |
| Yugoslavia | 10 635 264 | 3 028 | 28.5 | 1 873 | 17.6 | 2 392 | 78.3 | 1 | | | | | | | | |
| Regional Total | 870 131 984 | 351 521 | 43.3 | 111 371 | 13.7 | 197 052 | 56.5 | i | 115 622 581 | 13.3 | 53 662 | 46.4 | 15.3 | 18 957 | 16.4 | 48.0 |

| | | Cou | intry l | nformatio | on (19 | 98) | | | | (| Other St | rategy | / (non-l | DOTS) | | |
|------------------------|------------|----------|----------|-----------|--------|--------------------|------------------|-------|------------|-------|------------|--------|-----------------|---------|-------|-----------------------|
| | | | | | | | | | | | Cove | erage | | | | % new |
| Countries | | | Notified | Cases | | New ss+ | % case | Cate- | Populatio | n | Notified c | ases | % | New ss+ | | ss+ out of all new |
| | Population | All type | s | New ss | + | cases estimated | detection of new | gory | No. | (%) | No. | Rate | cases out of | notifi | | pulm. |
| | | No. | Rate | No. | Rate | esumateu | ss+ cases | | | | | | all cases | No. | Rate | cases |
| | а | b | С | d | е | f | d/f | g | h | h/a | i | j | k | 1 | m | n |
| Albania | 3 119 089 | 694 | 22.3 | 212 | 6.8 | 425 | 49.9 | 1 | 31 191 | 1.0 | 694 | 2225.0 | 100.0 | 212 | 679.7 | 58.4 |
| Andorra | 76 000 | 8 | 10.5 | 1 | 1.3 | 8 | 12.2 | 4 | | | | | | | | |
| Armenia | 3 536 449 | 1 381 | 39.1 | 475 | 13.4 | 725 | 65.5 | 3 | 707 290 | 20.0 | 151 | 21.3 | 10.9 | 88 | 12.4 | 64.7 |
| Austria | 8 139 937 | 1 268 | 15.6 | | | 615 | | 1 | | | 1 268 | | 100.0 | | | |
| Azerbaijan | 7 668 715 | 4 672 | 60.9 | 727 | 9.5 | 1 997 | 36.4 | 3 | 6 748 469 | 88.0 | 4 334 | 64.2 | 92.8 | 566 | 8.4 | 13.7 |
| Belarus | 10 314 539 | 6 150 | 59.6 | 5 047 | 48.9 | 3 021 | 167.1 | 1 | 10 314 539 | 100.0 | 6 150 | 59.6 | 100.0 | 5 047 | 48.9 | 100.0 |
| Belgium | 10 140 775 | 1 055 | 10.4 | 418 | 4.1 | 731 | 57.2 | 1 | | | 1 055 | | 100.0 | 418 | | 53.7 |
| Bosnia and Herzegovina | 3 675 480 | 2 711 | 73.8 | 640 | 17.4 | 1 444 | 44.3 | 3 | 2 683 100 | 73.0 | 861 | 32.1 | 31.8 | 159 | 5.9 | 21.1 |
| Bulgaria | 8 335 580 | 4 559 | 54.7 | 1 325 | 15.9 | 1 608 | 82.4 | 1 | 8 335 580 | 100.0 | 4 559 | 54.7 | 100.0 | 1 325 | 15.9 | 37.5 |
| Croatia | 4 480 743 | 2 118 | 47.3 | 1 129 | 25.2 | 1 294 | 87.2 | 1 | 4 480 743 | 100.0 | 2 118 | 47.3 | 100.0 | 1 129 | 25.2 | 64.7 |
| Czech Republic (the) | 10 281 729 | 1 758 | 17.1 | 545 | 5.3 | 905 | 60.2 | 4 | | | | | | | | |
| Denmark | 5 269 719 | 506 | 9.6 | 132 | 2.5 | 257 | 51.4 | 1 | 5 269 719 | 100.0 | 506 | 9.6 | 100.0 | 132 | 2.5 | 41.4 |
| Estonia | 1 429 417 | 820 | 57.4 | 299 | 20.9 | 324 | 92.3 | 1 | 1 429 417 | 100.0 | 820 | 57.4 | 100.0 | 299 | 20.9 | 48.0 |
| Finland | 5 153 847 | 508 | 9.9 | 188 | 3.6 | 285 | 66.0 | 1 | 5 153 847 | 100.0 | 508 | 9.9 | 100.0 | 188 | 3.6 | 57.3 |
| France | 58 683 488 | | | | | 4 899 | | 0 | | | | | | | | |
| Georgia | 5 058 518 | 4 876 | 96.4 | 547 | 10.8 | 1 625 | 33.7 | 4 | | | | | | | | |
| Germany | 82 133 337 | 10 440 | 12.7 | 3 124 | 3.8 | 5 353 | 58.4 | 1 | 82 133 337 | 100.0 | 10 440 | 12.7 | 100.0 | 3 124 | 3.8 | 35.5 |
| Greece | 10 600 283 | 1 079 | 10.2 | 313 | 3.0 | 1 139 | 27.5 | 1 | 10 600 283 | 100.0 | 1 079 | 10.2 | 100.0 | 313 | 3.0 | 37.1 |
| Hungary | 10 116 299 | 3 489 | 34.5 | 667 | 6.6 | 2 111 | 31.6 | 1 | 10 116 299 | 100.0 | 3 489 | 34.5 | 100.0 | 667 | 6.6 | 21.3 |
| Iceland | 276 049 | 16 | 5.8 | 2 | 0.7 | 5 | 40.0 | 5 | 276 049 | 100.0 | 16 | 5.8 | 100.0 | 2 | 0.7 | 20.0 |
| Ireland | 3 681 073 | 365 | 9.9 | 116 | 3.2 | 357 | 32.5 | 1 | 3 681 073 | 100.0 | 365 | 9.9 | 100.0 | 116 | 3.2 | 43.9 |
| Israel | 5 984 047 | 625 | 10.4 | 221 | 3.7 | 212 | 104.2 | 4 | | | | | | | | |
| Italy | 57 369 144 | 5 727 | 10.0 | 2 361 | 4.1 | 2 518 | 93.8 | 3 | 45 321 624 | 79.0 | 4 909 | 10.8 | 85.7 | 2 040 | 4.5 | 54.0 |
| Kazakhstan | 16 318 584 | 20 623 | 126.4 | 6 180 | 37.9 | 7 839 | 78.8 | 2 | 15 665 841 | 96.0 | 19 776 | 126.2 | 95.9 | 5 866 | 37.4 | 35.4 |
| Kyrgyzstan | 4 642 924 | 5 706 | 122.9 | 830 | 17.9 | 2 006 | 41.4 | 4 | | | 2 492 | | 43.7 | | | |
| Latvia | 2 424 397 | 1 970 | 81.3 | 668 | 27.6 | 903 | 74.0 | 4 | | | | | | | | |
| Lithuania | 3 693 679 | 3 016 | 81.7 | 787 | 21.3 | 1 330 | 59.2 | 1 | 3 693 679 | 100.0 | 3 016 | 81.7 | 100.0 | 787 | 21.3 | 31.0 |
| Luxembourg | 421 856 | 44 | 10.4 | 24 | 5.7 | 30 | 80.0 | 1 | 421 856 | 100.0 | 44 | 10.4 | 100.0 | 24 | 5.7 | 66.7 |
| Malta | 383 677 | 16 | 4.2 | 6 | 1.6 | 13 | 46.2 | 4 | | | | | | | | |
| Monaco | 33 000 | | | | | | | 5 | | | | | | | | |
| Netherlands (the) | 15 678 486 | 1 212 | 7.7 | 254 | 1.6 | 699 | 36.3 | 4 | | | | | | | | |
| Norway | 4 419 091 | 223 | 5.0 | 49 | 1.1 | 112 | 43.8 | 4 | | | | | | | | |
| Poland | 38 718 148 | 13 302 | 34.4 | 3 502 | 9.0 | 7 817 | 44.8 | 2 | 36 782 241 | 95.0 | 12 938 | 35.2 | 97.3 | 3 370 | 9.2 | 28.2 |

| | | Cou | ntry I | nformatio | n (19 | 98) | | | | (| Other Sti | rategy | / (non-l | OOTS) | | |
|--|-------------|----------|----------|-----------|-------|--------------------|------------------|-------|-------------|-------|------------|--------|-----------------|---------|-------|-----------------------|
| | | | | | | | | | | | Cove | erage | | | | % new |
| Countries | | | Notified | Cases | | New ss+ | | Cate- | Populatio | on | Notified c | ases | % | New ss+ | | ss+ out of all new |
| | Population | All type | s | New ss | + | cases estimated | detection of new | gory | No. | (%) | No. | Rate | cases out of | notifi | | pulm. |
| | | No. | Rate | No. | Rate | Cournated | ss+ cases | | | | | | all cases | No. | Rate | cases |
| | а | ь | С | d | е | f | d/f | g | h | h/a | i | j | k | 1 | m | n |
| Portugal | 9 868 982 | 5 260 | 53.3 | 2 016 | 20.4 | 2 429 | 83.0 | 4 | | | | | | | | |
| Republic of Moldova (the) | 4 378 058 | 2 625 | 60.0 | 477 | 10.9 | 1 467 | 32.5 | 1 | 4 378 058 | 100.0 | 2 625 | 60.0 | 100.0 | 477 | 10.9 | 19.9 |
| Romania | 22 474 175 | 25 623 | 114.0 | 10 841 | 48.2 | 12 237 | 88.6 | 4 | | | 40 | | | | | |
| Russian Federation (the) | 147 433 600 | 121 434 | 82.4 | 42 219 | 28.6 | 70 055 | 60.3 | 2 | 138 587 584 | 94.0 | 119 663 | 86.3 | 98.5 | 41 536 | 30.0 | 37.9 |
| San Marino | 26 000 | | | | | | | 5 | | | | | | | | |
| Slovakia | 5 377 162 | 1 117 | 20.8 | 303 | 5.6 | 835 | 36.3 | 4 | | | | | | | | |
| Slovenia | 1 992 600 | 424 | 21.3 | 157 | 7.9 | 259 | 60.6 | 4 | | | | | | | | |
| Spain | 39 627 632 | 8 927 | 22.5 | 1 906 | 4.8 | 10 225 | 18.6 | 1 | 39 627 632 | 100.0 | 8 927 | 22.5 | 100.0 | 1 906 | 4.8 | 21.4 |
| Sweden | 8 874 974 | 447 | 5.0 | 97 | 1.1 | 194 | 50.0 | 5 | 8 874 974 | 100.0 | 447 | 5.0 | 100.0 | 97 | 1.1 | 35.5 |
| Switzerland | 7 299 100 | 749 | 10.3 | 165 | 2.3 | 348 | 47.4 | 1 | 7 299 100 | 100.0 | 749 | 10.3 | 100.0 | 165 | 2.3 | 30.1 |
| Tajikistan | 6 015 392 | 2 448 | 40.7 | 435 | 7.2 | 2 378 | 18.3 | 1 | 6 015 392 | 100.0 | 2 448 | 40.7 | 100.0 | 435 | 7.2 | 21.4 |
| The former Yugoslav Republic of Macedonia | 1 998 776 | 620 | 31.0 | 179 | 9.0 | 461 | 38.8 | 1 | 19 988 | 1.0 | 620 | 3101.9 | 100.0 | 179 | 895.5 | 33.9 |
| Turkey | 64 479 315 | 22 509 | 34.9 | 3 692 | 5.7 | 11 703 | 31.5 | 1 | 64 479 315 | 100.0 | 22 509 | 34.9 | 100.0 | 3 692 | 5.7 | 22.3 |
| Turkmenistan | 4 308 688 | 3 839 | 89.1 | 790 | 18.3 | 1 436 | 55.0 | 1 | 4 308 688 | 100.0 | 3 839 | 89.1 | 100.0 | 790 | 18.3 | 22.5 |
| Ukraine | 50 861 259 | 31 318 | 61.6 | 10 586 | 20.8 | 14 578 | 72.6 | 1 | 50 861 259 | 100.0 | 31 318 | 61.6 | 100.0 | 10 586 | 20.8 | 40.6 |
| United Kingdom of Great Britain and N. Ireland | 58 648 658 | 5 658 | 9.6 | 1 342 | 2.3 | 4 859 | 27.6 | 1 | 58 648 658 | 100.0 | 5 658 | 9.6 | 100.0 | 1 342 | 2.3 | 40.5 |
| Uzbekistan | 23 574 250 | 14 558 | 61.8 | 3 504 | 14.9 | 8 589 | 40.8 | 2 | 23 338 508 | 99.0 | 14 440 | 61.9 | 99.2 | 3 464 | 14.8 | 27.1 |
| Yugoslavia | 10 635 264 | 3 028 | 28.5 | 1 873 | 17.6 | 2 392 | 78.3 | 1 | 10 635 264 | 100.0 | 3 028 | 28.5 | 100.0 | 1 873 | 17.6 | 66.2 |
| Regional Total | 870 131 984 | 351 521 | 43.3 | 111 371 | 13.7 | 197 052 | 56.5 | | 670 920 596 | 77.1 | 297 859 | 44.4 | 84.7 | 92 414 | 13.8 | 36.2 |

| | and the second s | | | | - | V | VHO . | ГВ Сс | ontrol S | trategy | (DO | TS) | | | | | | |
|------------------------|--|--------------|----------|-------|--------|--------|-------|--------|----------------|----------|--------------|-------|--------|--------|--------|------|----------|----------------|
| | | | | | | | Trea | atmen | t Outco | omes ir | 199 | 7 | | | | | | |
| | | | | New | ss+ ca | ses | | | | | | | Retrea | atment | cases | ; | | |
| Countries | Registered | Not | Cured | Comp. | Def. | Failed | Dead | Trans. | Treat. | Register | Not | Cured | Comp. | Def. | Failed | Dead | Trans. | Treat. |
| | | eval. (%) | (%) | (%) | (%) | (%) | (%) | (%) | Success (%) | -ed | eval. (%) | (%) | (%) | (%) | (%) | (%) | (%) | Success (%) |
| | o | р | q | r | s | t | и | v | w | х | У | Z | aa | ab | ac | ad | ae | af |
| Albania | | | <u> </u> | | | | | | | | | | | | | | | |
| Andorra | | | | | | | | | | | | | | | | | | |
| Armenia | 359 | 2.5 | 76.9 | 5.3 | 5.0 | 6.1 | 3.1 | 1.1 | 82.2 | | | | | | | | | |
| Austria | | | | | | - | | | | | | | | | | | | |
| Azerbaijan | 156 | 0.0 | 79.5 | 7.1 | 4.5 | 1.3 | 5.1 | 2.6 | 86.5 | | | | | | | | | |
| Belarus | | | | | | | | | | | | | | | | | | |
| Belgium | | | | | | | | | | | | | | | | | | |
| Bosnia and Herzegovina | 662 | 0.0 | 92.1 | 1.2 | 1.4 | 1.1 | 3.2 | 1.1 | 93.4 | 862 | 0.0 | 92.2 | 2.9 | 0.8 | 0.9 | 2.6 | 0.6 | 95.1 |
| Bulgaria | | | | | | | | | | | | | | | | | | |
| Croatia | | | | | | | | | | | | | | | | | | |
| Czech Republic (the) | 451 | 24.4 | 50.6 | 18.6 | 2.0 | 0.9 | 2.7 | 0.9 | 69.2 | 395 | 39.2 | 43.3 | 12.7 | 2.3 | 0.8 | 1.5 | 0.3 | 55.9 |
| Denmark | | | | | | | | | | | | | | | | | | |
| Estonia | | | | | | | | | | | | | | | | | | |
| Finland | | | | | | | | | | | | | | | | | | |
| France | | | <u> </u> | | | | | | | | | | | | | | | |
| Georgia | 595 | 20.2 | 63.4 | 1.5 | 8.9 | 2.7 | 1.0 | 2.4 | 64.9 | | | | | | - | | | |
| Germany | | | | | | | | | | | | | | | | | | |
| Greece | | | | | | | | | | | | | | | | | | |
| Hungary | | | | | | | | | | | | | | | | | | |
| Iceland | | | | | | | | | | | | | | | | | | |
| Ireland | | | | | | | | | | | | | | | | | | |
| Israel | | | | | | | | | | | | | | | | | | |
| Italy | 222 | 0.0 | 51.4 | 18.0 | 12.2 | 0.5 | 7.7 | 10.4 | 69.4 | 293 | 0.0 | 47.1 | 28.0 | 8.9 | 0.3 | 6.5 | 9.2 | 75.1 |
| Kazakhstan | | | | | | | | | | | | | | | | | | |
| Kyrgyzstan | 82 | 0.0 | 74.4 | 1.2 | 2.4 | 12.2 | 6.1 | 3.7 | 75.6 | | | | | | | | | |
| Latvia | 580 | 0.0 | 62.8 | 2.4 | 11.7 | 8.1 | 11.7 | 3.3 | 65.2 | 805 | 0.0 | 67.1 | 3.1 | 10.3 | 6.8 | 9.7 | 3.0 | 70.2 |
| Lithuania | | | | | | | | | | | | | | | | | | |
| Luxembourg | | | | | | | | | | | | | | | | | | |
| Malta | 3 | 0.0 | | 100.0 | | | | | 100.0 | 2 | 0.0 | | 50.0 | | | | 50.0 | 50.0 |
| Monaco | | | | | | | | | | | | | | | | | | |
| Netherlands (the) | 308 | 3.9 | | 79.9 | 2.6 | | 11.0 | 2.6 | 79.9 | 655 | 0.5 | 22.6 | 62.1 | 4.4 | | 9.3 | 1.1 | 84.7 |
| Norway | 9 | 11.1 | 33.3 | | | | 44.4 | | 44.4 | 100 | 4.0 | 1 | | 2.0 | | 15.0 | | |
| Poland | | | | | | | - | | | 1 | - | | | | - | | <u> </u> | |

Regional Profile - EUR cont'd.

| | | | | | | ٧ | VHO - | ГВ Сс | ntrol S | trategy | (DO | TS) | | | | | | |
|--|------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|-----------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|
| | | | | | | | Trea | tmen | t Outco | mes ir | 199 | 7 | | | | | | |
| | | | | New | ss+ ca | ses | | | | | | | Retrea | atment | cases | 5 | | |
| Countries | Registered | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) | Register -ed | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) |
| | 0 | р | q | r | S | t | и | V | w | x | у | z | aa | ab | ac | ad | ae | af |
| Portugal | 1 876 | 6.7 | 51.2 | 27.2 | 2.9 | 3.6 | 4.4 | 3.9 | 78.4 | | | | | | | | | |
| Republic of Moldova (the) | | | | | | | | | | | | | | | | | | |
| Romania | 8 872 | 0.0 | 53.8 | 18.1 | 13.6 | 8.9 | 4.5 | 1.1 | 71.9 | 2 887 | 18.3 | 36.3 | 28.3 | 8.3 | 4.6 | 3.4 | 0.8 | 64.6 |
| Russian Federation (the) | 661 | 4.4 | 66.4 | 1.1 | 8.2 | 7.9 | 9.7 | 2.4 | 67.5 | | | | | | | | | |
| San Marino | 1 | 0.0 | 100.0 | | | | | | 100.0 | 1 | 0.0 | 100.0 | | | | | | 100.0 |
| Slovakia | 283 | 24.0 | 61.1 | 6.0 | 3.2 | 0.4 | 5.3 | | 67.1 | 463 | 16.4 | 73.9 | 0.4 | 3.0 | 0.2 | 5.8 | 0.2 | 74.3 |
| Slovenia | 156 | 1.3 | 64.7 | 17.3 | 5.1 | 0.6 | 8.3 | 2.6 | 82.1 | | | | | | | | | |
| Spain | | | | | | | | | | | | | | | | | | |
| Sweden | | | | • | | | | | | | | - | | | | | | |
| Switzerland | | | | | | | | | | | | | | | | | | |
| Tajikistan | | | | | | | | | | | | | | | | | | |
| The former Yugoslav Republic of Macedonia | | | | | | | | | | | | | | | | | | |
| Turkey | | | | | | | | | | | | | | | | | | |
| Turkmenistan | | | | | | | | | | | | | | | | | | |
| Ukraine | | | | | | | | | | | | | | | | | | |
| United Kingdom of Great Britain and N. Ireland | | | | | | | | | | | | | | | | | | |
| Uzbekistan | | | | | | | | | | | | | | | | | | |
| Yugoslavia | | | | | | | | | | | | | | | | | | |
| Regional Total | 15 276 | 3.1 | 56.3 | 17.0 | 10.0 | 6.7 | 5.0 | 1.8 | 73.4 | 6 463 | 11.8 | 49.9 | 22.4 | 6.3 | 3.1 | 5.0 | 1.4 | 72.3 |

| | | | | - | | | 01 | ther S | trategy | (non-E | OTS |) | | | | | | |
|------------------------|------------|--------------|-------|--------|--------|---------|-------|--------|----------------|----------|--------------|----------|--------|-------|----------|-------|--------|----------------|
| | | | | | | | Tre | atme | nt Outo | omes i | n 199 | 97 | | | | | | |
| | | | New s | s+ cas | es (SI | nort Co | urse) | | | | | New s | s+ cas | es (O | ther Re | gimen | 1) | |
| Countries | Registered | Not | | Comp. | Def. | Failed | | Trans. | Treat. | Register | Not | | Comp. | Def. | | _ | Trans. | Treat. |
| | | eval. (%) | (%) | (%) | (%) | (%) | (%) | (%) | Success (%) | -ed | eval. (%) | (%) | (%) | (%) | (%) | (%) | (%) | Success (%) |
| | 0 | p | q | r | s | t | u | V | W | х | у | Z | aa | ab | ac | ad | ae | af |
| Albania | | | | | | | | | | | | | | | | | | |
| Andorra | | | | | | | | | | | | | | | | | | |
| Armenia | | | | | | | | | | | | | | | | | | |
| Austria | | | | | | | i | | | | | | | | | | | |
| Azerbaijan | 236 | 1.7 | 88.6 | 1.3 | 1.3 | 1.7 | 4.7 | 0.8 | 89.8 | | | | | | | | | |
| Belarus | | | | | | | | | | | | | | | | | | |
| Belgium | | | | | | | | | | | | | | | | | | |
| Bosnia and Herzegovina | 151 | 15.9 | 46.4 | 27.2 | 5.3 | 2.0 | 2.6 | 0.7 | 73.5 | | | | | | - | | | |
| Bulgaria | | | | | | | | | | | | | | | | | | |
| Croatia | | | | | | | | | | | | | | | | | | |
| Czech Republic (the) | | | | | | | | | | | | | | | | | | |
| Denmark | | | | | | | | | | | | | | | | | | |
| Estonia | | | | | | | | | | | | | | | | | | |
| Finland | | | | | | | | | | | | | | | | | | |
| France | | | | | | | | | | | | | | | - | | | |
| Georgia | | | | | | | | | | | | | | | | | | |
| Germany | | | | | | | | | | | | | | | 1 | | | |
| Greece | | | | | | | | | | l | | | | | <u> </u> | | | |
| Hungary | 702 | 0.0 | 34.6 | 40.2 | 4.4 | 10.8 | 9.0 | 1.0 | 74.8 | | | | | | | | | |
| Iceland | 4 | 0.0 | 25.0 | 50.0 | | | 25.0 | | 75.0 | | | | | | - | | | |
| Ireland | | | | | | | | | | | | | | | - | | | |
| Israel | | ļ | | | | | | | | | | | | | | | | |
| Italy | | | | | | | | | | | | | | | | | | |
| Kazakhstan | 4 332 | 11.9 | 65.8 | 8.5 | 4.0 | 9.7 | | | 74.3 | | | <u> </u> | ļ | | † | | ļ | |
| Kyrgyzstan | | | | | | | | | | | | | | | | | | - |
| Latvia | | | | | | | | | | | | | | | | | - | |
| Lithuania | 943 | 0.0 | 64.1 | 1.4 | 16.3 | 6.9 | 11.0 | 0.3 | 65.4 | | | | | | | | | |
| Luxembourg | 31 | 0.0 | | 100.0 | | | | | 100.0 | l | | | | | | | | |
| Malta | | | | | | | | | | | | - | - | | | | | |
| Monaco | | | | | | | | | | - | | | | | | | | |
| Netherlands (the) | <u> </u> | | | | | | | | | | | | | | | | | |
| Norway | | | | | | | | | - | l | | | | | | | - | |
| Poland | | | | | | | | | | | | | - | | - | | | |

Regional Profile - EUR cont'd.

| | | | | | | | 01 | her S | trategy | (non-l | OOTS |) | | | | | | |
|--|------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|-----------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|
| | | | | | | | Tre | atme | nt Outc | omes | in 199 | 97 | | | | | | |
| | | | New s | s+ cas | es (Si | hort Co | urse) | | | | | New s | s+ cas | es (O | ther Re | gimen |) | |
| Countries | Registered | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) | Register -ed | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) |
| | 0 | р | q | r | s | t | и | v | w | х | у | Z | aa | ab | ac | ad | ae | af |
| Portugal | | | | | | | | | | | | | | | | | | |
| Republic of Moldova (the) | | · · | | | | | | | | | | | | | | | | |
| Romania | | | | | | | | | | | | | | | | | | |
| Russian Federation (the) | | | | | | | | | | | | | | | | | | |
| San Marino | | | | | | | | | | | | | | | | | | |
| Slovakia | | | | | | | | | | | | | | | | | | |
| Slovenia | | | | | | | | | | | | | | | | | | |
| Spain | | | | | | | | | | | | | | | | | | |
| Sweden | | | | | | T | | | | | | | | | | | | |
| Switzerland | | | | | | | | | | | | | | | | | | |
| Tajikistan | 373 | 0.0 | 74.5 | | 5.1 | 4.0 | 12.3 | 4.0 | 74.5 | | | | | | | | | |
| The former Yugoslav Republic of Macedonia | | | | | | | | | | | | | | | | | | |
| Turkey | | | | | | | | | | | | | | | | | | |
| Turkmenistan | 557 | 13.6 | 58.9 | | | 2.3 | 10.4 | 14.7 | 58.9 | | | | | | | | | |
| Ukraine | | | | | | | | | | | | | | | | | | |
| United Kingdom of Great Britain and N. Ireland | | | | | | | | | | | | T | | | | | | |
| Uzbekistan | | | | | | | | | | | | | | | | | | |
| Yugoslavia | | | | | | | | | | | | | | | | | | |
| Regional Total | 7 329 | 8.5 | 62.5 | 10.1 | 5.3 | 8.2 | 3.9 | 1.5 | 72.7 | | | | | | | | | |

EUR - Notification rates by age and sex, 1998.

| | | | | MALE | | | | | | | FI | EMALE | | | | | | | | ALL | | | | |
|---|----------|--------|-------------|--------------|--------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|--------------|-------------|-------------|--------------|-------------|
| Age gro | ups 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total |
| Albania | 0.3 | 5.9 | 7.8 | 10.6 | 13.2 | 24.0 | 31.9 | 8.2 | 0.4 | 7.1 | 4.3 | 5.6 | 10.4 | 11.0 | 13.6 | 5.3 | 0.3 | 6.5 | 6.1 | 8.2 | 11.8 | 17.7 | 21.7 | 6.8 |
| Andorra | 0.0 | 0.0 | 0.0 | 19.5 | 0.0 | 0.0 | 0.0 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.7 | 0.0 | 0.0 | 0.0 | 1.3 |
| Armenia | 0.4 | 52.1 | 34.1 | 27.8 | 26.5 | 13.1 | 13.6 | 23.4 | 0.2 | 7.1 | 7.5 | 3.6 | 6.0 | 3.3 | 3.8 | 4.1 | 0.3 | 30.0 | 20.7 | 15.2 | 15.6 | 7.8 | 7.8 | 13.4 |
| Austria | | | | | | | | | | | | | | | | | | | | | | | | |
| Azerbaijan | 0. | 6.3 | 7.2 | 4.4 | 3.6 | 1.7 | 1.1 | 3.5 | 0.0 | 1.1 | 1.5 | 1.2 | 2.1 | 0.4 | 0.0 | 0.8 | 0.0 | 3.8 | 4.4 | 2.7 | 2.8 | 1.0 | 0.4 | 2.1 |
| Belarus | | | | | | | | | | | | | | | | | | | | | | | | |
| Belgium | 0. | 3.5 | 6.7 | 7.2 | 6.9 | 7.1 | 12.4 | 6.0 | 0.2 | 1.0 | 4.2 | 2.6 | 2.5 | 2.4 | 4.1 | 2.4 | 0.3 | 2.3 | 5.4 | 4.9 | 4.7 | 4.7 | 7.6 | 4.1 |
| Bosnia and Herzegovina | 0. | 10.0 | 24.2 | 25.9 | 34.3 | 33.3 | 57.3 | 21.7 | 0.8 | 13.9 | 14.1 | 8.3 | 9.8 | 15.7 | 45.4 | 13.3 | 0.5 | 11.9 | 19.3 | 17.2 | 21.9 | 23.9 | 50,3 | 17.4 |
| Bulgaria | | | | | | | | | | | | | | | | | | | | | | | | |
| Croatia | 3. | 14.9 | 26.5 | 52.1 | 57.2 | 42.8 | 57.3 | 33.9 | 4.9 | 14.3 | 21.4 | 16.0 | 12.3 | 17.3 | 35.7 | 17.4 | 4.1 | 14.6 | 24.0 | 34.1 | 34.7 | 29.3 | 43.9 | 25.2 |
| Czech Republic (the) | 0. | | 5.0 | 12.2 | 13.2 | 14.0 | 19.0 | 8.0 | 0.1 | 0.7 | 2.4 | 1.7 2.1 | 2.3 | 2.0 | 10.6 | 2.8 1.9 | 0.1 | 0.8 2.1 | 3.7 4.5 | 7.0 3.8 | 7.7 3.2 | 7.7 2.3 | 13.9 2.1 | 5.3 2.5 |
| Denmark | 0. | 2.2 | 4.9 | 5.4 | 4.6 | 2.5 | 3.0 | 3.2 | 0.2 | 1.9 | 4.1 | | 1.8 | 2.1 | 1.5 | | | | | | | | | |
| Estonia | 0. | | 48.1 | 55.6 | 73.6 | 48.6 | 37.1 | 36.5 | 0.0 | 6.8 | 7.4 | 13.5 | 9.2 | 7.8 | 8.6 | 7.4 | 0.0 | 10.6 | 28.4 1.2 | 34.3 2.3 | 39.5 2.3 | 25.6 6.3 | 18.2 15.2 | 20.9 3.6 |
| Finland | 0. | | 1.1 25.0 | 2.3 27.3 | 3.7 23.7 | 8.2 22.1 | 23.7 8.7 | 4.7 16.1 | 0.0 0.7 | 0.9 11.0 | 1.2 | 2.4 6.3 | 1.0 5.1 | 4.4 5.9 | 9.7 2.0 | 6.1 | 0.0 0.7 | 1.1 13.8 | 1.2 | 16.3 | 13.8 | 13.2 | 4.6 | 10.8 |
| Georgia | 0. | | | | | | | | | | | | | | | | | | | | | | | |
| Germany | 0. | | | 6.7 | 6.9 | 6.5 5.2 | 12.0 6.3 | 5.6 3.7 | 0.2 1.4 | 2.8 2.7 | 2.6 1.5 | 2.2 1.8 | 1.8 1.2 | 1.5 0.8 | 4.3 2.8 | 2.2 1.8 | 0.2 1.6 | 3.3 2.3 | 3.8 2.7 | 4.5 3.0 | 4.4 2.3 | 4.0 2.9 | 7.3 4.4 | 3.8 2.7 |
| Greece | 1. 0. | | 3.9 9.1 | 4.3 21.0 | 3.3 23.6 | 12.8 | 11.4 | 10.6 | 0.0 | 1.7 | 4.0 | 4.7 | 3.4 | 2.8 | 4.8 | 3.0 | 0.0 | 1.7 | 6.6 | 12.8 | 13.1 | 7.2 | 7.4 | 6.6 |
| Hungary | | | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.6 | 0.7 | 0.0 | 0.0 | 2.4 | 0.0 | 0.0 | 0.0 | 3.5 | 0.7 |
| Iceland | 0. | | -,- | 8.4 | 3.6 | 5.1 | 11.4 | 4.2 | 0.0 | 1.6 | 4.1 | 0.4 | 0.5 | 2.6 | 6.1 | 1.9 | 0.0 | 2.4 | 3.6 | 4.3 | 2.0 | 3.9 | 8.4 | 3.0 |
| ireland Israel | 0. | | | 9.1 | 6.0 | 8.4 | 13.3 | 5.1 | 0.1 | 1.8 | 2.3 | 1.8 | 2.8 | 4.3 | 8.6 | 2.4 | 0.1 | 2.8 | 4.5 | 5.4 | 4.4 | 6.2 | 10.6 | 3.7 |
| | 0. | 4 3.6 | 7.0 | 5.8 | 5.0 | 6.9 | 11.3 | 5.7 | 0.2 | 3.1 | 3.3 | 2.6 | 1.5 | 2.1 | 5.4 | 2.7 | 0.3 | 3.4 | 5.2 | 4.2 | 3.2 | 4.4 | 7.9 | 4.1 |
| italy Kazakhstan | 1. | | 82.1 | 66.6 | 86.9 | 93.7 | 21.5 | 48.9 | 2.7 | 43.7 | 60.7 | 36.1 | 25.8 | 25.8 | 10.0 | 27.7 | 2.1 | 49.2 | 71.6 | 51.1 | 55.0 | 56.2 | 14.0 | 37.9 |
| Kyrgyzstan | 0. | 5 24.1 | 51.5 | 48.5 | 49.9 | 37.5 | 21.8 | 24.9 | 0.4 | 15.8 | 26.4 | 17.7 | 12.4 | 16.5 | 5.6 | 11.3 | 0.4 | 20.0 | 39.0 | 32.7 | 30.4 | 26.3 | 11.7 | 17.9 |
| Latvia | 0. | 35.1 | 61.7 | 72.9 | 88.7 | 56.2 | 35.8 | 46.9 | 0.4 | 14.3 | 26.4 | 13.6 | 14.2 | 9.1 | 8.6 | 11.7 | 0.2 | 24.6 | 44.0 | 42.1 | 48.2 | 29.0 | 17.3 | 27.6 |
| Lithuania | 0. | | 27.6 | 58.9 | 81.0 | 47.7 | 37.8 | 33.5 | 0.0 | 10.3 | 9.3 | 22.6 | 9.6 | 9.5 | 16.4 | 10.7 | 0.0 | 12.2 | 18.7 | 40.5 | 43.0 | 26.1 | 23.9 | 21.3 |
| Luxembourg | 0. | 11.1 | 18.0 | 21.0 | 14.0 | 9.0 | 0.0 | 10.7 | 2.7 | 0.0 | . 3.1 | 6.0 | 7.3 | 0.0 | 6.2 | 3.8 | 1.3 | 5.7 | 10.7 | 13.4 | 10.7 | 4.4 | 3.7 | 7.1 |
| Malta | 0. | 0 3.4 | 0.0 | 0.0 | 3.6 | 0.0 | 17.3 | 2.6 | 0.0 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 3.5 | 0.0 | 0.0 | 1.8 | 0.0 | 7.4 | 1.6 |
| Monaco | | | | | | | | | | | | | | | | | | | | | | | | |
| Netherlands (the) | 0. | 1 3.2 | 3.1 | 3.2 | 1.8 | 1.4 | 3.2 | 2.2 | 0.1 | 2.1 | 2.0 | 1.4 | 0.4 | 8.0 | 8.0 | 1.1 | 0.1 | 2.6 | 2.6 | 2.3 | 1.1 | 1.1 | 1.8 | 1.6 |
| Norway | 0. | 0.4 | 1.2 | 0.9 | 0.3 | 1.0 | 6.5 | 1.3 | 0.0 | 3.0 | 0.6 | 1.0 | 0.3 | 1.0 | 1.4 | 1.0 | 0.0 | 1.6 | 0.9 | 0.9 | 0.3 | 1.0 | 3.6 | 1.1 |
| Poland | 0. | | | 24.4 | 25.8 | 19.9 | 22.8 | 13.0 | 0.1 | 3.2 | 6.5 | 7.1 | 4.9 | 4.4 | 14.2 | 5.4 | 0.1 | 3.1 | 8.4 34.4 | 15.8 35.3 | 15.1 | 11.5 | 17.5 | 9.0 20.4 |
| Portugal | 0. | 9 20.0 | 47.8 | 53.9 | 39.4 | 29.0 | 29.7 | 30,5 | 0.6 | 17.7 | 21.0 | 17.5 | 6.9 | 5.8 | 10.0 | 11.5 | 0.8 | 18.9 | 34.4 | | 22.5 | 16.5 | 18.2 | |
| Republic of Moldova (the) | 0. | | 23.0 | 35.0 | 24.4 | 21.9 | 10.6 | 17.5 | 0.4 | 9.4 | 6.7 | 9.4 | 3.9 | 2.4 | 2.8 | 4.9 | 0.4 | 14.4 | 14.8 | 21.7 | 13.5 | 10.9 | 5.8 | 10.9 |
| Romania | 1. | | 89.6 | 150.5 | 130.7 | 90.3 | 45.6 0.6 | 74.3 | 2.1 0.0 | 40.9 | 39.6 0.2 | 29.6 0.3 | 21.5 0.2 | 17.1 0.2 | 15.0 0.2 | 23.5 0.2 | 1.5 | 44.7 0.3 | 65.1 0.6 | 90.6 0.8 | 75.2 0.8 | 51.3 0.6 | 28.1 0.3 | 48.1 0.5 |
| Russian Federation (the) | 0. | | | 1.3 | 1.5 | 1.2 | | | | | | | | | | | | | | | | | | |
| San Marino | 0 | | | 0.0 | 0.0 | 0.0 18.0 | 0.0 16.1 | 0.0 8.1 | 0.0 | 0.0 1.1 | 0.0 0.8 | 0.0 3.9 | 0.0 1.7 | 0.0 2.0 | 0.0 17.3 | 0.0 3.4 | 0.0 | 0.0 1.1 | 0.0 4.3 | 0.0 8.4 | 0.0 8.2 | 0.0 9.2 | 0.0 16.8 | 0.0 5.6 |
| Slovakia | 0. | | | 12.7 16.9 | 15.0 13.8 | 18.0 | 15.8 | 10.4 | 0.0 | 5.6 | 8.2 | 6.4 | 5.2 | 1.8 | 12.1 | 5.7 | 0.0 | 4.4 | 11.5 | 11.8 | 9.6 | 7.0 | 13.4 | 7.9 |
| Slovenia | | | | | | | | | 0.1 | 5.1 | 5.2 | 2.1 | 1,1 | 1.2 | 3.1 | 2.7 | 0.5 | 5.6 | 8.0 | 6.1 | 4.7 | 3.5 | 5.2 | 4.8 |
| Spain | 0 | | | 10.2 0.5 | 8.3 1.2 | 5.9 0.6 | 8.1 2.5 | 7.2 1.1 | 0.1 | 2.0 | 2.5 | 0.9 | 0.0 | 0.4 | 2.4 | 1.2 | 0.5 | 1.6 | 2.0 | 0.7 | 0.6 | 0.5 | 2.4 | 1.1 |
| Sweden Switzerland | 0 | | | 4.2 | 2.4 | 2.7 | 5.9 | 3.2 | 0.2 | 2.7 | 2.6 | 1.0 | 0.8 | 0.3 | 2.0 | 1.4 | 0.1 | 3.1 | 3.8 | 2.7 | 1.6 | 1.5 | 3.7 | 2.3 |
| | ٥ | | | 14.7 | 11.5 | 17.4 | 9.7 | 8.8 | 0.2 | 5.8 | 13.4 | 11.0 | 13.3 | 7.7 | 5.6 | 5.7 | 0.4 | 8.7 | 17.0 | 12.8 | 12.4 | 12.5 | 7.3 | 7.2 |
| Tajikistan The former Yugoslav Republic of Macedonia | 1 | | | 38.1 | 15.6 | 23.5 | 15.8 | 14.5 | 2.2 | 10.0 | 12.2 | 5.6 | 6.7 | 6.2 | 4.0 | 6.5 | 1.7 | 9.2 | 12.3 | 22.1 | 11.1 | 14.5 | 9.3 | 10.5 |
| Turkey | ' | | | 20.1 | | _5.5 | | | | | | | | | | | | | | | | | | |
| Turkmenistan | , | 0 24.1 | 63.2 | 51.1 | 50.9 | 54.3 | 17.9 | 26.5 | 0.2 | 14.4 | 20.9 | 15.8 | 20.8 | 16.4 | 7.7 | 10.4 | 0.1 | 19.3 | 42.1 | 32.9 | 35.3 | 34.4 | 11.7 | 18.3 |
| Ukraine | 0 | | | 65.6 | 65.8 | 42.7 | 26.0 | 35.1 | 0.8 | 12.9 | 16.1 | 10.9 | 7.7 | 5.6 | 9.0 | 8.7 | 0.6 | 15.7 | 29.7 | 37.6 | 34.8 | 21.8 | 14.8 | 20.8 |
| United Kingdom of Great Britain and N. Ireland (the) | 0 | 2 2.8 | 3.8 | 3.4 | 2.8 | 3.5 | 6.3 | 3.0 | 0.2 | 3.0 | 2.4 | 1.7 | 1.1 | 1.3 | 2.4 | 1.7 | 0.2 | 2.9 | 3.1 | 2.5 | 1.9 | 2.4 | 4.1 | 2.3 |
| Uzbekistan | 0 | 0 0.3 | 0.3 | 0.0 | 0.1 | 0.2 | 0.0 | 0,1 | 0.0 | 0.4 | 0.5 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.0 | 0.3 | 0.4 | 0.1 | 0.2 | 0.2 | 0.1 | 0.2 |
| Yugoslavia | | | | | | | | | | | | | | | | | | | | | | | | |
| | EUR 0 | 3 6.9 | 12.5 | 16.3 | 16.0 | 13.0 | 11.1 | 9.9 | 0.3 | 5,3 | 6.1 | 4.4 | 3.1 | 2.9 | 4.7 | 3.7 | 0.3 | 6.1 | 9.3 | 10.3 | 9.4 | 7.6 | 7.2 | 6.6 |

EUR - Age and sex distribution of smear-positive TB cases in DOTS areas, 1998 (absolute numbers).

| | | | | | MALE | | | | | | | F | EMALE | | | | | | | | ALL | | | | |
|--------------------------|------------|------|-------|-------|-------|-------|-------|-------|--------|------|-------|-------|-------|-------|-------|----------------|-------|------|-------|-------|-------|-------|-------|-------|--------|
| | Age groups | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | <u>></u> 65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total |
| Andorra | | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Armenia | | 2 | 108 | 75 | 67 | 35 | 17 | 15 | 319 | 1 | 20 | 17 | 10 | 9 | 5 | 6 | 68 | 3 | 128 | 92 | 77 | 44 | 22 | 21 | 387 |
| Azerbaijan | | 0 | 44 | 47 | 24 | 9 | 4 | 2 | 130 | 0 | 7 | 10 | 7 | 6 | 1 | 0 | 31 | 0 | 51 | 57 | 31 | 15 | 5 | 2 | 161 |
| Bosnia and Herzegovina | | 1 | 26 | 62 | 64 | 50 | 37 | 50 | 290 | 2 | 30 | 34 | 20 | 18 | 23 | 64 | 191 | 3 | 56 | 96 | 84 | 68 | 60 | 114 | 481 |
| Czech Republic (the) | | 0 | 7 | 37 | 88 | 104 | 67 | 95 | 398 | 1 | 6 | 17 | 12 | 18 | 11 | 82 | 147 | 1 | 13 | 54 | 100 | 122 | 78 | 177 | 545 |
| Georgia | | 4 | 64 | 91 | 99 | 58 | 52 | 19 | 387 | 4 | 41 | 52 | 25 | 14 | 17 | 7 | 160 | 8 | 105 | 143 | 124 | 72 | 69 | 26 | 547 |
| Israel | | 1 | 20 | 29 | 35 | 19 | 16 | 30 | 150 | 1 | 9 | 10 | 7 | 9 | 9 | 26 | 71 | 2 | 29 | 39 | 42 | 28 | 25 | 56 | 221 |
| Italy | | 2 | 21 | 48 | 37 | 29 | 29 | 36 | 202 | 1 | 21 | 26 | 16 | 8 | 9 | 38 | 119 | 3 | 42 | 74 | 53 | 37 | 38 | 74 | 321 |
| Kazakhstan | | 2 | 61 | 52 | 39 | 23 | 10 | 6 | 193 | 2 | 38 | 43 | 19 | 5 | 6 | 8 | 121 | 4 | 99 | 95 | 58 | 28 | 16 | 14 | 314 |
| Kyrgyzstan | | 4 | 105 | 176 | 141 | 75 | 43 | 21 | 565 | 3 | 68 | 89 | 54 | 20 | 22 | 9 | 265 | 7 | 173 | 265 | 195 | 95 | 65 | 30 | 830 |
| Latvia | | 0 | 58 | 105 | 129 | 121 | 68 | 35 | 516 | 1 | 24 | 45 | 26 | 23 | 15 | 18 | 152 | 1 | 82 | 150 | 155 | 144 | 83 | 53 | 668 |
| Malta | | 0 | 1 | 0 | 0 | 1 | 0 | 3 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 1 | 0 | 3 | 6 |
| Netherlands (the) | | 2 | 31 | 40 | 41 | 21 | 11 | 26 | 172 | 2 | 19 | 25 | 17 | 4 | 6 | 9 | 82 | 4 | 50 | 65 | 58 | 25 | 17 | 35 | 254 |
| Norway | | 0 | 1 | 4 | 3 | 1 | 2 | 17 | 28 | 0 | 8 | 2 | 3 | 1 | 2 | 5 | 21 | 0 | 9 | 6 | 6 | 2 | 4 | 22 | 49 |
| Poland | | 0 | 2 | 13 | 28 | 20 | 13 | 15 | 91 | 0 | 4 | 6 | 16 | 5 | 1 | 9 | 41 | 0 | 6 | 19 | 44 | 25 | 14 | 24 | 132 |
| Portugal | | 8 | 154 | 367 | 362 | 232 | 141 | 173 | 1 437 | 5 | 132 | 160 | 123 | 44 | 33 | 82 | 579 | 13 | 286 | 527 | 485 | 276 | 174 | 255 | 2 016 |
| Romania | | 21 | 895 | 1624 | 2327 | 1762 | 1011 | 522 | 8 162 | 43 | 725 | 692 | 448 | 300 | 219 | 232 | 2 659 | 64 | 1 620 | 2 316 | 2 775 | 2 062 | 1 230 | 754 | 10 821 |
| Russian Federation (the) | | 0 | 45 | 89 | 161 | 131 | 81 | 34 | 541 | 2 | 24 | 24 | 33 | 20 | 15 | 24 | 142 | 2 | 69 | 113 | 194 | 151 | 96 | 58 | 683 |
| San Marino | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Slovakia | | 0 | 5 | 30 | 53 | 50 | 37 | 35 | 210 | 0 | 5 | 3 | 16 | 6 | 5 | 58 | 93 | 0 | 10 | 33 | 69 | 56 | 42 | 93 | 303 |
| Slovenia | | 0 | 5 | 22 | 27 | 19 | 13 | 14 | 100 | 0 | 8 | 12 | 10 | 7 | 2 | 18 | 57 | 0 | 13 | 34 | 37 | 26 | 15 | 32 | 157 |
| Uzbekistan | | 0 | 6 | 5 | 0 | 1 | 1 | 0 | 13 | 0 | 9 | 9 | 4 | 2 | 1 | 1 | 26 | 0 | 15 | 14 | 4 | 3 | 2 | 1 | 39 |
| | EUR | 47 | 1 659 | 2 916 | 3 726 | 2 761 | 1 653 | 1 148 | 13 910 | 68 | 1 199 | 1 276 | 866 | 519 | 402 | 696 | 5 026 | 115 | 2 858 | 4 192 | 4 592 | 3 280 | 2 055 | 1 844 | 18 936 |
| | % | 0.3 | 11.9 | 21.0 | 26.8 | 19.8 | 11.9 | 8.3 | 100 | 1.4 | 23.9 | 25.4 | 17.2 | 10.3 | 8.0 | 13.8 | 100 | 0.6 | 15.1 | 22.1 | 24.3 | 17.3 | 10.9 | 9.7 | 100 |

EUR - Age and sex distribution of smear-positive TB cases in non-DOTS areas, 1998 (absolute numbers).

| | | | | | | MALE | | | | | | | F | EMALE | | | | | | | | ALL | | | | |
|-----|-------------------------------------|--|------|-------|-------|-------|-------|-------|-------|--------|------|-------|-------|-------|-------|-------|-------|--------|------|-------|-------|-------|-------|-------|-------|--------|
| | | Age groups | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total |
| EUR | Albania | | 1 | 17 | 21 | 24 | 18 | 26 | 24 | 131 | 2 | 19 | 11 | 12 | 13 | 11 | 13 | 81 | 3 | 36 | 32 | 36 | 31 | 37 | 37 | 212 |
| EUR | Armenia | | 0 | 51 | 15 | 12 | 4 | 0 | 0 | 82 | 0 | 1 | 3 | 1 | 1 | 0 | 0 | 6 | 0 | 52 | 18 | 13 | 5 | 0 | 0 | 88 |
| EUR | Austria | | | | | | | | | | | | | | | | | | | | | | | | | |
| EUR | Azerbaijan | | | | | | | | | | | | | | | | | | | | | | | | | |
| EUR | Belarus | | | | | | | | | | | | | | | | | | | | | | | | | |
| EUR | Belgium | | 3 | 22 | 50 | 58 | 48 | 36 | 78 | 295 | 2 | 6 | 30 | 20 | 17 | 13 | 35 | 123 | 5 | 28 | 80 | 78 | 65 | 49 | 113 | 418 |
| EUR | Bosnia and Herzegovina | | 0 | 2 | 13 | 21 | 25 | 18 | 25 | 104 | 1 | 7 | 8 | 7 | 4 | 7 | 21 | 55 | 1 | 9 | 21 | 28 | 29 | 25 | 46 | 159 |
| EUR | • | | | | | | | | | | | | | | | | | | | - | | | | | | |
| | Croatia | | 14 | 48 | 81 | 177 | 176 | 106 | 129 | 731 | 19 | 44 | 64 | 54 | 38 | 48 | 131 | 398 | 33 | 92 | 145 | 231 | 214 | 154 | 260 | 1 129 |
| EUR | Denmark | | 0 | 7 | 20 | 21 | 18 | 7 | 9 | 82 | 1 | 6 | 16 | 8 | 7 | 6 | 6 | 50 | 1 | 13 | 36 | 29 | 25 | 13 | 15 | 132 |
| EUR | Estonia | | 0 | 15 | 49 | 60 | 64 | 34 | 22 | 244 | 0 | 7 | 7 | 15 | 9 | 7 | 10 | 55 | 0 | 22 | 56 | 75 | 73 | 41 | 32 | 299 |
| EUR | Finland | | 0 | 4 | 4 | 9 | 15 | 21 | 63 | 116 | 0 | 3 | 4 | 9 | 4 | 12 | 40 | 72 | 0 | 7 | 8 | 18 | 19 | 33 | 103 | 188 |
| EUR | Germany | i | 9 | 179 | 333 | 448 | 358 | 349 | 538 | 2 214 | 11 | 121 | 166 | 141 | 93 | 80 | 298 | 910 | 20 | 300 | 499 | 589 | 451 | 429 | 836 | 3 124 |
| EUR | Greece | | 15 | 15 | 31 | 31 | 22 | 31 | 47 | 192 | 11 | 20 | 12 | 13 | 8 | 5 | 26 | 95 | 26 | 35 | 43 | 44 | 30 | 36 | 73 | 287 |
| EUR | Hungary | | 0 | 14 | 64 | 149 | 163 | 62 | 59 | 511 | 0 | 13 | 27 | 34 | 25 | 17 | 40 | 156 | 0 | 27 | 91 | 183 | 188 | 79 | 99 | 667 |
| EUR | Iceland | | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 |
| EUR | Ireland | | 1 | 11 | 8 | 21 | 8 | 8 | 19 | 76 | 0 | 5 | 11 | 1 | 1 | 4 | 13 | 35 | 1 | 16 | 19 | 22 | 9 | 12 | 32 | 111 |
| EUR | Italy | | 13 | 107 | 279 | 211 | 160 | 197 | 393 | 1 360 | 9 | 84 | 124 | 94 | 50 | 66 | 245 | 672 | 22 | 191 | 403 | 305 | 210 | 263 | 638 | 2 032 |
| EUR | Kazakhstan | | 32 | 734 | 957 | 778 | 605 | 505 | 72 | 3 683 | 60 | 587 | 670 | 438 | 199 | 168 | 61 | 2 183 | 92 | 1 321 | 1 627 | 1 216 | 804 | 673 | 133 | 5 866 |
| | Kyrgyzstan | | | | | | | | | | | | | | | | | | | | | | | | | |
| EUR | Lithuania | | 0 | 38 | 77 | 165 | 163 | 81 | 57 | 581 | 0 | 27 | 25 | 65 | 22 | 21 | 46 | 206 | 0 | 65 | 102 | 230 | 185 | 102 | 103 | 787 |
| EUR | Luxembourg | | 0 | 3 | 6 | 7 | 4 | 2 | 0 | 22 | 1 | 0 | 1 | 2 | 2 | 0 | 2 | 8 | 1 | 3 | 7 | 9 | 6 | 2 | 2 | 30 |
| EUR | Monaco | | | | | | | | | | | | | | | | | | | | | | | | | |
| EUR | Poland | | 4 | 97 | 253 | 724 | 627 | 298 | 352 | 2 355 | 5 | 98 | 155 | 203 | 122 | 80 | 352 | 1 015 | 9 | 195 | 408 | 927 | 749 | 378 | 704 | 3 370 |
| EUR | Republic of Moldova (the) | | 2 | 72 | 67 | 116 | 56 | 36 | 16 | 365 | 2 | 34 | 20 | 34 | 10 | 5 | 7 | 112 | 4 | 106 | 87 | 150 | 66 | 41 | 23 | 477 |
| EUR | Russian Federation (the) | | | | | | | | | | | | | | | | | | | | | | | | | |
| EUR | Spain | | 25 | 186 | 361 | 294 | 195 | 114 | 205 | 1 380 | 3 | 149 | 167 | 61 | 27 | 25 | 104 | 536 | 28 | 335 | 528 | 355 | 222 | 139 | 309 | 1 916 |
| EUR | Sweden | | 2 | 6 | 9 | 3 | 8 | 3 | 15 | 46 | 1 | 10 | 15 | 5 | 0 | 2 | 18 | 51 | 3 | 16 | 24 | 8 | 8 | 5 | 33 | 97 |
| EUR | Switzerland | | 0 | 15 | 30 | 26 | 12 | 10 | 23 | 116 | 1 | 11 | 15 | 6 | 4 | 1 | 11 | 49 | 1 | 26 | 45 | 32 | 16 | 11 | 34 | 165 |
| EUR | Tajikistan | 1 | 9 | 67 | 90 | 48 | 18 | 22 | 10 | 264 | 2 | 33 | 60 | 37 | 21 | 10 | 8 | 171 | 11 | 100 | 150 | 85 | 39 | 32 | 18 | 435 |
| EUR | The former Yugoslav Republic of M | facedonia | 3 | 14 | 19 | 56 | 18 | 21 | 13 | 144 | 5 | 16 | 18 | 8 | 8 | 6 | 4 | 65 | 8 | 30 | 37 | 64 | 26 | 27 | 17 | 209 |
| EUR | Turkey | | | | | | | | | | | | | | | | | | | | | | | | | |
| EUR | Turkmenistan | | 0 | 100 | 210 | 131 | 64 | 48 | 12 | 565 | 2 | 59 | 69 | 43 | 28 | 16 | 8 | 225 | 2 | 159 | 279 | 174 | 92 | 64 | 20 | 790 |
| EUR | Ukraine | | 24 | 687 | 1500 | 2460 | 1873 | 1140 | 576 | 8 260 | 36 | 468 | 556 | 431 | 248 | 194 | 393 | 2 326 | 60 | 1 155 | 2 056 | 2 891 | 2 121 | 1 334 | 969 | 10 586 |
| EUR | United Kingdom of Great Britain and | N. Ireland (the) | 11 | 103 | 164 | 141 | 108 | 105 | 225 | 857 | 9 | 105 | 103 | 71 | 44 | 39 | 114 | 485 | 20 | 208 | 267 | 212 | 152 | 144 | 339 | 1 342 |
| EUR | Uzbekistan | | | | | | | | | | | | | | | | | | | | | | | | | |
| EUR | Yugoslavia | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | EUR | 168 | 2 614 | 4 712 | 6 191 | 4 830 | 3 280 | 2 982 | 24 777 | 183 | 1 933 | 2 357 | 1 813 | 1 005 | 843 | 2 007 | 10 141 | 351 | 4 547 | 7 069 | 8 004 | 5 835 | 4 123 | 4 989 | 34 918 |
| | | ************************************** | 0.7 | 10.6 | 19.0 | 25.0 | 19.5 | | 12.0 | 100 | 1.8 | 19.1 | | | | | | | | | | | | | | |
| | | % | 0.7 | 10.0 | 19.0 | 25.0 | 19.0 | 13.2 | 12.0 | 100 | 1.6 | 19.1 | 23.2 | 17.9 | 9.9 | 8.3 | 19.8 | 100 | 1.0 | 13.0 | 20.2 | 22.9 | 16.7 | 11.8 | 14.3 | 100 |

| Turkey 39 92 26 457 28 634 27 589 30 960 31 029 30 531 27 884 26 669 24 468 25 166 25 455 22 981 20 212 25 685 22 509 Turkmenistan 1625 1559 1541 1604 1607 1614 1956 1904 2169 2 325 2 358 2 074 2 751 1939 2 072 3 438 3 839 | EUR - Number of tuberculosis cases notified, 1981 | 1-1998 | | | | | | | | | | | | | | | | | |
|--|---|-----------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| Array (1964) (1 | Country | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
| Arriage (14) 16 (14) 17 (15) 18 (14) 18 (15) | Albania | | | | | | | | | | | | | | | | | | |
| Mathematic 1.0 2. | | | | | | | | | | | | | | | | | | | |
| Demont 1 19 1 20 1 20 1 20 1 20 1 20 1 20 1 20 | Austria | 2 061 | 1 942 | 1 825 | 1 /65 | 1 442 | 1 3// | 1 390 | 1 402 | 1 334 | 1 521 | 1 426 | 1 354 | 1 207 | 1 264 | 1 399 | 1 3/3 | 1 369 | 1 208 |
| Perfect Perf | * | | | | | | | | | | | | | | | | | | |
| Part | | | | | | | | | | | | | | | | | | | |
| Degree Control 1909 29 | Beigium | 2 037 | 2 002 | 2 190 | 2 149 | 1 936 | 1 693 | 1772 | 1 300 | 1 040 | 1577 | | | 1 303 | 1 321 | 1 300 | 1 340 | 1 209 | |
| Control Process Act | | | | | | | | | | | | | | | | | | | |
| Part | = | | | | | | | | | | | | | | | | | | |
| Demans 1 594 | Citatia | | | _ | | | | | | | | | | | | | | | |
| Part | | | | | | | | | | | | | | | | | | | |
| Part | | | | | | | | | | | | | | | | | | | |
| Part | | | | | | | | | | | | | | | | | | | |
| Company 1978 219 | | | | | | | | | | | | | | | | | | | 508 |
| Common 19 | | | | | | | | | | | | 0010 | | | 0 000 | | | | 4 876 |
| Part | | 27.092 | 25 207 | 22.077 | 20.242 | 20.074 | 17 006 | 17 102 | 16 292 | 15 205 | 14.853 | 12 474 | 14 113 | 14 161 | 12.002 | 12 100 | 11 014 | 44 462 | 10.440 |
| Instruction 10 | | | | | | | | | | | | | | 14 101 | 12 502 | 12 190 | 11014 | | |
| Instance 1 010 | | 5 322 | 5 181 | | | 4 852 | | | | | | | | 4 209 | 4 163 | 4 339 | 4 403 | | |
| Instance 1 010 | Iceland | 23 | 25 | 24 | 26 | 13 | 13 | 12 | 16 | 18 | 18 | 15 | 16 | | 18 | 12 | 11 | 10 | 16 |
| Laly | | | | | | | | | | | | | | | | | | | |
| Kazahlatan 19.76 3.08 3.50 13.08 2.50 12.08 12.05 2.09 2.09 12.09 10.09 10.09 10.09 10.00 | Israel | 227 | 232 | 222 | 257 | 368 | 239 | 184 | 226 | 160 | 234 | 505 | 345 | 419 | 395 | | 369 | 422 | 625 |
| Very part Very | Italy | 3 182 | 3 850 | 4 253 | 3 472 | 4 113 | 4 077 | 3 278 | 3 610 | 3 996 | 4 246 | 3 719 | 4 685 | 4 734 | 5 816 | 5 627 | 4 155 | 4 886 | 5 727 |
| Leiving 1 140 1 077 1 072 1 074 1 223 982 948 948 958 857 906 943 955 959 1 131 1541 1 761 2 003 1 970 Leiliuurina 1 599 1 495 1 477 1 420 1 453 1 442 1 130 4 131 1 339 1 341 1 541 1 761 2 003 1 970 Leiliuurina 1 599 1 495 | Kazakhstan | 13 876 | 13 808 | 13 357 | 12 563 | 12 423 | 13 090 | 13 286 | 13 501 | 13 307 | 10 969 | 10 821 | 10 920 | 10 425 | 10 519 | 11 310 | 13 944 | 17 060 | 20 623 |
| Limburain | Kyrgyzstan | 2 085 | 2 051 | 1 981 | 2 022 | 2 094 | 2 122 | 2 088 | 2 159 | 2 132 | 2 306 | 2 515 | 2 582 | 2 427 | 2 726 | 3 393 | 4 093 | 5 346 | 5 706 |
| Livembourg 45 41 44 45 46 42 45 45 48 46 46 48 48 48 48 48 48 48 48 48 48 48 48 48 | Latvia | 1 140 | 1 077 | 1 072 | 1 054 | 1 223 | 982 | 948 | 938 | 857 | 906 | 943 | 955 | 994 | 1 131 | 1 541 | 1 761 | 2 003 | 1 970 |
| Martian (28) 13 24 15 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | | | | | | | | | 2 362 | | | |
| Moreaco | Luxembourg | 45 | 41 | 41 | 46 | 42 | 45 | 48 | 16 | 45 | 48 | 48 | 25 | 35 | 33 | | 41 | 38 | 44 |
| Nemberlands (the) 1734 1514 1423 1400 1302 1238 1238 1237 1314 1317 1308 1345 1345 1345 1357 1311 1619 1679 1480 1212 1214 1314 1314 1314 1314 1314 1314 | | | | | | | | | 12 | | | | | 26 | | 11 | | | |
| Norway | | - | | | - | | | | 1 341 | | | _ | | 1 587 | | 1 619 | | | |
| Polary Po | | | | | | | | | | | | | | | | | | | |
| Portugal 7 249 7 309 7 656 8 6 88 6 6 28 7 7 699 6 368 6 6 28 7 6 99 6 368 6 6 24 7 6 99 6 368 6 6 24 8 5 99 5 927 5 5 44 7 5 6 19 5 577 5 248 5 11 5 2 8 8 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | | | | | | | | |
| Romania Romani | | | | | | | | | | | | | | | | | | | |
| Romania Romani | Peguiblic of Maldova (the) | 2 952 | 3 107 | 2 959 | 2.554 | 2 722 | 3 022 | 2 810 | 2.510 | 2 284 | 1 729 | 1.010 | 1 925 | 2 426 | 2 626 | 2.025 | 2 022 | 2 009 | 2 625 |
| San Marinion | | | | | | | | | | | | | | | | | | | |
| Stockleis Stoc | Russian Federation (the) | 73 369 | 72 236 | 73 280 | 74 597 | 64 644 | 71 764 | 70 132 | 67 553 | 62 987 | 50 641 | 50 407 | 53 148 | 63 591 | 70 822 | 84 980 | 111 075 | 121 491 | 121 434 |
| Slovakia | San Marino | | | | | | | | | | 1 | 1 | | 3 | 2 | | | 1 | 0 |
| Spain 5 552 7 961 8 987 10 078 10 749 13 755 9 468 8 497 8 058 7 600 9 007 9 703 9 441 8 78 8 78 8 78 8 78 8 8 8 97 8 98 8 8 8 | | 2 304 | 2 263 | 2 252 | 2 152 | 1 989 | 2 022 | 1 830 | 1 651 | 1 501 | 1 448 | 1 620 | 1 733 | 1 799 | 1 760 | 1 540 | 1 503 | 1 302 | 1 117 |
| Sweden 875 784 832 754 702 640 545 536 595 521 610 616 537 564 497 459 447 Switzerland 1193 1167 1067 946 961 881 1018 1201 1104 1278 1134 987 950 924 831 764 747 749 Tajikistan 2631 2631 2639 2427 2485 2610 227 2474 2621 2460 2116 1612 1622 1702 728 748 248 7260 1218 1625 1528 768 724 248 248 1606 2545 288 298 2920 247 248 248 2660 2448 25166 25456 2545 728 269 2426 2488 2490 248 2560 2488 2490 2488 2490 2488 2490 2488 2490 2488 | Slovenia | 939 | 982 | 925 | 896 | 923 | 816 | 792 | 760 | 768 | 722 | 583 | 640 | 646 | 526 | 525 | 563 | 481 | 424 |
| Switzerland 1193 1167 1097 948 961 881 1201 1104 1208 1134 987 930 924 831 764 749 749 Tajikistan 2631 2631 2632 2509 2427 2485 2610 2727 2474 2621 2460 2116 1602 1712 692 2029 1647 2430 2630 Turkey 3992 26457 2863 2758 3990 3109 3109 3109 2788 2788 2669 2486 2545 2545 2791 2021 2586 22505 25209 2546 2750 2546 2748 2669 2486 2546 2545 2740 2626 2545 2748 2546 2546 2546 2246 2246 2245 2749 2169 2356 2640 2430 2430 2480 2480 2480 2480 2480 2480 2480 2480 <t< td=""><td>Spain</td><td>5 552</td><td>7 961</td><td>8 987</td><td>10 078</td><td>10 749</td><td>13 755</td><td>9 468</td><td>8 497</td><td>8 058</td><td>7 600</td><td>9 007</td><td>9 703</td><td>9 441</td><td></td><td>8 764</td><td>8 331</td><td>9 347</td><td>8 927</td></t<> | Spain | 5 552 | 7 961 | 8 987 | 10 078 | 10 749 | 13 755 | 9 468 | 8 497 | 8 058 | 7 600 | 9 007 | 9 703 | 9 441 | | 8 764 | 8 331 | 9 347 | 8 927 |
| Tajkistan 2 631 2 632 2 509 2 427 2 485 2 610 2 727 2 474 2 621 2 460 2 116 1 671 652 882 2 029 1 647 2 430 2 620 6 724 6 93 620 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | | | | | | | | | | | | |
| The former Yugoslav Republic of Macedonia Turkey 3992 26 457 28 645 27 58 6 39 60 31 629 30 501 27 88 4 26 68 24 68 25 66 25 455 5 5 29 81 20 21 25 68 25 50 25 50 25 69 | Switzerland | 1 193 | 1 167 | 1 097 | 946 | 961 | 881 | 1 018 | 1 201 | 1 104 | 1 278 | 1 134 | 987 | 930 | 924 | 831 | 764 | 747 | 749 |
| Turkey 39 90 26 457 28 634 27 59 9 30 960 31 029 30 531 27 84 26 69 24 68 25 166 25 45 5 22 98 20 21 25 98 20 21 25 98 20 22 25 98 20 20 20 20 20 20 20 20 20 20 20 20 20 | | 2 631 | 2 628 | 2 509 | 2 427 | 2 485 | 2 610 | 2 727 | 2 474 | 2 621 | 2 460 | 2 116 | | 652 | | | 1 647 | 2 143 | 2 448 |
| Turkmenistan 1 625 1 559 1 541 1 604 1 607 1 614 1 956 2 946 2 2145 2 074 2 169 2 325 2 358 2 074 2 751 1 939 2 072 3 438 3 839 Ukraine 2 5 646 2 4710 2 4 216 2 4 356 2 4 058 2 2 946 2 2 145 2 0 744 2 0 182 1 6 465 1 6 713 1 8 140 1 9 84 2 0 622 2 1 459 2 3 414 2 8 344 3 1 318 United Kingdom of Great Britain and Northern Ireland (the) 9 290 8 436 7 8 14 7 0 26 6 666 6 841 5 732 5 733 6 0 59 5 908 6 0 88 6 411 6 481 6 196 6 176 6 238 6 355 5 6 58 Uzbekistan 9 6 82 8 697 8 8 17 8 4 8 717 9 427 9 794 1 0 134 1 0 632 9 414 9 9 370 9 774 1 4 890 9 866 1 1 9 19 1 3 352 1 4 558 7 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 | The former Yugoslav Republic of Macedonia | | | | | | | | | | | | | 1 712 | 728 | | | | |
| Ukraine 25 646 24 710 24 216 24 356 24 056 24 216 24 236 24 056 24 156 24 216 24 216 24 356 24 356 24 056 6666 6841 5732 5793 6 059 5 908 6 088 6 411 6 481 6 196 6 176 6 238 6 355 5 658 Uzbekistan 9 682 8 697 8 817 8 544 8 717 9 427 9 794 10 134 10 632 9 414 9 370 9 774 14 890 9 866 11 919 13 352 14 558 Yugoslavia 6 381 6 274 6 443 6 454 6 246 6 266 6 642 5 583 5 045 4 194 4 502 3 771 3 843 3 606 2 788 4 017 4 066 3 028 Other territories 2 4 20 2 4 21 15 24 17 19 8 Andors 2 4 20 3 49 43 3 19 147 3 83 22 288 22 3 29 554 298 571 277 104< | Turkey | 39 992 | 26 457 | 28 634 | 27 589 | 30 960 | 31 029 | 30 531 | 27 884 | 26 669 | 24 468 | 25 166 | 25 455 | | | 22 981 | 20 212 | 25 685 | 22 509 |
| United Kingdom of Great Britain and Northern Ireland (the) 9 290 8 436 7 814 7 026 6 666 6 841 5 732 5 793 6 059 5 908 6 088 6 411 6 481 6 196 6 176 6 238 6 355 5 658 Uzbekistan 9 682 8 697 8 817 8 544 8 717 9 427 9 794 10 134 10 632 9 414 9 9370 9 774 14 890 9 866 11 919 13 352 14 558 Yugoslavia 6 381 6 274 6 443 6 454 6 426 6 126 | Turkmenistan | , 020 | | | | | | | | | | | | | | | | | |
| Uzbekistan 9 682 8 697 8 817 8 544 8 717 9 427 9 794 10 134 10 632 9 414 9 370 9 774 14 890 9 866 11 919 13 352 14 580 9 704 14 890 9 866 11 919 13 352 14 580 9 704 14 890 9 866 11 919 13 352 14 580 9 806 11 919 13 352 14 580 9 806 11 919 13 352 14 580 9 806 11 919 13 352 14 580 9 806 11 919 13 352 14 580 9 806 11 919 13 352 14 580 9 806 11 919 13 352 14 580 9 806 11 919 13 352 14 580 9 806 11 919 13 352 14 580 9 806 11 919 13 352 14 580 9 806 11 919 13 352 14 580 9 806 11 919 13 352 14 580 9 806 11 919 13 352 14 580 9 806 11 919 13 352 14 580 9 806 11 919 13 352 18 30 <td>Ukraine</td> <td></td> | Ukraine | | | | | | | | | | | | | | | | | | |
| Yugoslavia 6 381 6 274 6 483 6 484 6 483 6 484 6 484 6 186 6 486 6 482 5 583 5 045 4 194 4 502 3 771 3 843 3 606 2 788 4 017 4 066 3 028 Other territories Andorra 12 2 2 2 2 1 15 2 17 19 8 Total 346 035 324 94 319 147 308 362 298 872 302 554 290 571 277 104 272 09 243 09 243 132 288 184 3173 33 375 500 351 244 No. of countries reporting 46 20 20 20 20 20 20 22 21 22 21 22 21 20 20 22 23 23 22 21 22 21 20 20 22 23 23 22 21 22 21 22 21 20 20 22 23 23< | • | | | | | | | | | | | 6 U88 | | | | | - | | |
| Other territories Andorra 12 23 24 21 15 24 17 19 8 Total No. of countries reporting 48 20 20 20 20 20 20 20 20 20 20 20 21 22 21 22 21 20 20 20 22 23 23 | | | | | | | | | | | | | | | | | | | |
| Andorra 12 23 24 21 15 24 17 19 8 Total 346 035 324 94 319 147 308 362 298 872 302 554 290 571 277 104 267 209 24 309 231 608 248 480 241 779 243 132 288 884 317 30 357 580 351 521 No. of countries reporting 48 20 20 20 20 20 22 21 22 21 20 20 22 23 23 | rugosiavia | 6 381 | 6 274 | 6 443 | 6 454 | 6 246 | 6 126 | ช 042 | 5 583 | 5 045 | 4 194 | 4 502 | 3 771 | 3 843 | 3 606 | 2 798 | 4 017 | 4 066 | 3 028 |
| Total 346 035 324 494 319 147 308 362 298 872 302 554 290 571 277 104 267 209 242 309 231 608 248 480 241 779 243 132 288 084 321 033 357 580 351 521 No. of countries reporting 48 20 20 20 20 20 20 20 20 20 20 20 21 22 21 22 21 20 20 20 22 23 23 | | | | | | | | | | | | | | | | | | | |
| No. of countries reporting 48 20 20 20 20 20 20 20 21 22 21 22 21 20 20 22 23 23 | | 3.4E 0.2F | 324 404 | 310 147 | 308 363 | 208 872 | 202 554 | 200 574 | 277 104 | | | | | | | 200 001 | | | |
| | | | | | | | | | | | | | | | | | | | |
| | % of countries reporting | 94 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 41 | 43 | 41 | 43 | 41 | 39 | 39 | 43 | 45 | |

EUR - Case notification rates (per 100 000 population), 1981-1998

| Country | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
|--|--------------|--------------|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---|---------------|---------------|---------------|
| | | | | | | | | | | | | | | 22.0 | 20.2 | 23.4 | 20.9 | 22.3 |
| Albania | 35.0 | 35.2 23.7 | 31.4 | 33.7 23.5 | 30.9 23.0 | 32.6 24.6 | 29.4 22.3 | 23.8 18.7 | 21.4 18.5 | 19.9 16.6 | 19.0 20.8 | 6.6 | 16.5 | 21.0 | 32.4 | 26.0 | 29.6 | 39.1 |
| Armenia Austria | 29.4 27.3 | 25.8 | 21.6 24.2 | 23.4 | 19.1 | 18.2 | 18.3 | 18.4 | 17.4 | 19.7 | 18.4 | 17.3 | 16.1 | 15.9 | 17.5 | 17.1 | 16.9 | 15.6 |
| Austra | | | | | | | | | | | | | | | | | | |
| Azerbaijan | 50.8 | 50.6 | 49.1 | 53.4 | 56.5 | 56.2 | 53.5 | 47.9 | 42.3 | 36.6 | 38.2 | 38.4 | 40.9 | 37.8 | 21.6 | 32.6 | 60.7 | 60.9 59.6 |
| Belarus | 63.7 | 55.8 | 55.8 | 51.0 | 48.7 | 41.0 | 38.7 | 37.1 16.0 | 36.3 16.6 | 29.6 | 36.4 14.7 | 23.3 13.3 | 39.9 15.0 | 41.9 15.1 | 46.7 13.7 | 53.9 13.3 | 57.8 12.7 | 10.4 |
| Belgium | 28.8 | 26.9 | 22.2 | 21.8 | 19.8 | 19.2 | 17.9 | 16.0 | 10.0 | 15.8 | 14.7 | 13,3 | 15.0 | 13.1 | 13.7 | 13.3 | 12.7 | |
| Bosnia and Herzegovina | 110.8 | 117.4 | 111.1 | 115.3 | 113.2 | 109.8 | 105.8 | 94.2 | 95.7 | 94.5 | 85.1 | 15.2 | 18.3 | 45.3 | 62.4 | 64.9 | 81.5 | 73.8 |
| Bulgaria | 33.8 | 33.6 | 32.3 | 31.9 | 28.5 | 28.3 | 26.5 | 27.0 | 26.2 | 25.9 | 30.1 | 35.9 | 37.4 | 62.0 | 38.2 | 36.8 | 41.0 | 54.7 |
| Croatia | 91.4 | 84.1 | 81.8 | 81.1 | 80.6 | 74.8 | 73.9 | 66.0 | 63.4 | 57.0 | 47.8 | 48.5 | 50.6 | 49.3 | 47.1 | 48.4 | 45.8 | 47.3 |
| Czech Republic (the) | 41.8 | 40.2 | 38.9 | 35.4 | 30.2 | 24.8 | 21.3 | 19.9 | 18.5 | 18.8 | 20.2 | 19.2 | 18.1 | 19.0 | 17.8 | 19.1 | 17.8 | 17.1 |
| Denmark | 7.7 | 7.4 | 6.8 | 5.9 | 6.1 | 5.8 | 6.3 | 5.9 | 6.4 | 6.8 | 6.5 | 6.9 | 7.9 | 9.5 | 8.6 | 9.2 | 10.6 | 9.6 |
| Estonia | 37.8 | 37.8 | 39.2 | 36.2 | 35.6 | 34.1 | 28.8 | 30.2 | 26.9 | 21.1 | 26.0 | 26.0 | 34.8 | 42.8 | 42.0 | 35.5 | 51.4 | 57.4 |
| | 45.9 | 45.0 | 38.8 | 36.7 | 37.1 | 31.4 | 28.7 | 21.8 | 19.5 | 15.5 | 15.4 | 13.9 | 10.7 | 10.9 | 12.9 | 12.6 | 11.1 | 9.9 |
| Finland France | 30.4 | 28.4 | 25.3 | 22.4 | 20.5 | 19.0 | 18.4 | 16.4 | 16.0 | 15.9 | 14.9 | 15.0 | 16.6 | 15.7 | 15.0 | 13.1 | 11.7 | 0.0 |
| Georgia | 41.5 | 42.1 | 36.2 | 35.4 | 34.5 | 34.4 | 33.6 | 29.5 | 29.5 | 28.2 | | 39.3 | 69.7 | | 31.0 | 67.9 | 164.9 | 96.4 |
| | | | | | | | | | | | 40.0 | 47.0 | | 16.0 | 14.0 | 14.4 | 13.6 | 12.7 |
| Germany | 34.7 | 32.6 | 29.6 | 26.1 | 25.8 15.7 | 23.0 15.7 | 21.9 11.9 | 20.7 9.0 | 19.5 10.5 | 18.5 8.6 | 16.9 7.4 | 17.6 8.9 | 17.5 | 16.0 | 14.9 | 14.4 | 7.3 | 10.2 |
| Greece | 75.4 49.7 | 53.0 48.5 | 39.4 47.2 | 19.8 42.1 | 45.9 | 42.9 | 39.3 | 38.4 | 36.2 | 34.6 | 35.4 | 38.4 | 40.9 | 40.6 | 42.4 | 43.2 | 41.7 | 34.5 |
| Hungary | 40.1 | | | | | | | | | | | | | | | | | |
| Iceland | 10.0 | 10.7 | 10.2 | 10.9 | 5.4 | 5.3 | 4.9 | 6.4 | 7.1 | 7.1 | 5.8 | 6.1 | | 6.8 | 4.5 | 4.1 11.9 | 3.7 11.7 | 5.8 9.9 |
| Ireland | 29.6 | 28.0 | 26.3 | 23.6 6.2 | 22.6 8.7 | 17.0 5.6 | 16.4 4.2 | 15.2 5.1 | 19.2 3.5 | 17.8 5.0 | 18.2 10.5 | 17.1 6.9 | 8.1 | 7.3 | | 6.4 | 7.2 | 10.4 |
| Israel | 5.7 | 5.8 | 5.4 | 0.2 | 0.7 | 5.0 | 4.2 | J. I | 3.0 | 5.0 | 10.5 | 0.9 | 0.1 | 7.5 | | 0.4 | 1.2 | 10.4 |
| Italy | 5.6 | 6.8 | 7.5 | 6.1 | 7.2 | 7.2 | 5.8 | 6.3 | 7.0 | 7.4 | 6.5 | 8.2 | 8.3 | 10.2 | 9.8 | 7.2 | 8.5 | 10.0 |
| Kazakhstan | 92.0 | 90.5 | 86.5 | 80.4 | 78.5 | 81.6 | 81.7 | 82.0 | 80.0 | 65.5 | 64.5 | 65.2 | 62.5 | 63.4 | 68.5 | 84.8 | 104.2 | 126.4 |
| Kyrgyzstan | 56.3 | 54.3 | 51.4 | 51.4 | 52.2 | 51.8 | 50.0 | 50.7 | 49.2 | 52.5 | 56.6 | 57.6 | 53.7 | 60.0 | 74.2 | 89.1 | 115.7 | 122.9 |
| Latvia | 44.9 | 42.2 | 41.9 | 40.9 | 47.1 | 37.5 | 35.9 | 35.2 | 32.0 | 33.8 | 35.3 | 36.1 | 38.0 | 43.9 | 60.7 | 70.5 | 81.4 | 81.3 |
| Lithuania | 46.4 | 43.1 | 42.3 | 40.3 | 40.9 | 39.3 | 37.7 | 36.4 | 37.2 | 39.4 | 41.5 | 42.6 | 50.6 | 57.1 | 63.4 | 70.2 | 79.0 | 81.7 |
| Luxembourg | 12.4 | 11.3 | 11.2 | 12.6 | 11.5 | 12.2 | 12.9 | 4.3 | 11.9 | 12.6 | 12.5 | 6.4 | 8.8 | 8.2 | | 9.9 | 9.1 | 10.4 |
| Malta | 7.9 | 3.9 | 7.1 | 4.4 | 3.2 | 4.0 | 4.0 | 3.4 | 4.6 | 3.7 | 7.3 | 8.3 | 7.1 | 6.7 | 2.9 | 7.4 | 2.9 | 4.2 |
| Monaco | | 0.0 | • | | 3,6 | 7.1 | 6,9 | 3.4 | 3.3 | 3.3 | | 3.2 | | 3.2 | | | | |
| Netherlands (the) | 12.2 | 10.6 | 9.9 | 9.7 | 9.4 | 8.5 | 8.4 | 9.1 | 8.9 | 9.2 | 8.9 | 9.7 | 10.4 | 11.8 | 10.5 | 10.8 | 9.5 | 7.7 |
| | 11.2 | 10.9 | 9.6 | 9.0 | 9.0 | 8.2 | 7.3 | 7.0 | 6.0 | 6.7 | 6.8 | 6.7 | 5.9 | 5.6 | 5.4 | 5.0 | 4.7 | 5.0 |
| Norway Poland | 67.1 | 65.3 | 64.0 | 61.0 | 58.2 | 55.0 | 52.5 | 49.0 | 42.6 | 42.3 | 43.1 | 43.1 | 43.8 | 43.2 | 41.3 | 39.7 | 36.1 | 34.4 |
| Portugal | 73.7 | 73.9 | 71.2 | 69.7 | 69.6 | 66.9 | 71.7 | 64.4 | 67.5 | 63.0 | 60.6 | 60.1 | 55.3 | 57.0 | 56.6 | 53.2 | 51.8 | 53.3 |
| | | | | | | | | | | | | | | | 00.0 | 00.0 | 00.4 | 20.0 |
| Republic of Moldova (the) | 70.4 | 78.2 | 69.1 | 61.2 | 64.8 EE 8 | 71.1 56.3 | 65.5 58.2 | 58.1 61.2 | 52.5 63.3 | 39.6 70.0 | 43.7 66.8 | 41.9 78.4 | 55.4 88.6 | 60.0 93.8 | 66.8 102.4 | 66.8 106.9 | 66.4 108.0 | 60.0 114.0 |
| Romania | 60.9 52.6 | 60,6 51,4 | 60.2 51.8 | 57.3 52.4 | 55.8 45.1 | 49.7 | 48.2 | 46.0 | 42.7 | 34.1 | 33.9 | 35.7 | 42.8 | 47.7 | 57.4 | 75.1 | 82.3 | 82.4 |
| Russian Federation (the) | 32.0 | 31.4 | 51.0 | 32.4 | 40.1 | 43.1 | 40.2 | 40.0 | 72.7 | | | 00.1 | | | • | | | |
| San Marino | | | | | | | | | | 4.3 | 4.3 | | 12.5 | 8.0 | | | 3.8 | 20.8 |
| Slovakia | 45.9 | 44.8 | 44.3 | 42.1 | 38.7 | 39.1 | 35.3 | 31.7 40.0 | 28.7 40.3 | 27.5 37.6 | 30.7 30.2 | 32.7 32.9 | 33.8 32.9 | 33.0 26.6 | 28.8 26.4 | 28.0 28.2 | 24.2 24.1 | 21.3 |
| Slovenia | 50.9 | 52.9 | 49.6 | 47.8 | 49.1 | 43.2 | 41.8 | 40.0 | 40.3 | 37.0 | | 32.3 | | 20.0 | | | | |
| Spain | 14.7 | 20.9 | 23.5 | 26.3 | 27.9 | 35.6 | 24.4 | 21.8 | 20.6 | 19.3 | 22.9 | 24.6 | 23.9 | | 22.1 | 21.0 | 23.6 | 22.5 |
| Sweden | 10.5 | 9.4 | 10.0 | 9.0 | 8.4 | 7.6 | 6.5 | 6.3 | 7.0 | 6.5 | 6.1 | 7.0 | 7.1 | 6.1 | 6.4 | 5.6 | 5.2 | 5.0 |
| Switzerland | 18.8 | 18.3 | 17.1 | 14.6 | 14.7 | 13.4 | 15.3 | 17.9 | 16.3 | 18.7 | 16.4 | 14.2 | 13.2 | 13.0 | 11.6 | 10.6 | 10.3 | 10.3 |
| Tajikistan | 64.7 | 62.9 | 58.3 | 54.8 | 54.4 | 55.4 | 56.0 | 49.2 | 50.7 | 46.4 | 39.1 | 30.3 | 11.7 | 15.7 | 35.3 | 28.2 | 36.2 | 40.7 |
| The former Yugoslav Republic of Macedonia | | | | | | | | | | | | 82.9 | 88.1 | 37.3 | 40.0 | 36.7 | 34.9 | 31.0 |
| Turkey | 87.9 | 56.7 | 59.8 | 56.2 | 61.5 | 60.2 | 57.9 | 51.8 | 48.5 | 43.6 | 44.0 | 43.7 | | | 37.5 | 32.4 | 40.5 | 34.9 |
| Turkmenistan | 55.4 | 51.9 | 50.1 | 50.9 | 49.8 | 48.7 | 57.5 | 54.5 | 60.6 | 63.4 | 62.8 | 54.1 | 70.2 | | 47.5 | 49.9 | 81.2 | 89.1 |
| Ukraine Ukraine | 51,1 | 49.0 | 47.9 | 48.0 | 47.2 | 44.9 | 43.1 | 40.2 | 39.0 | 31.7 | 32.2 | 35.0 | 38.6 | 40.0 | 41.7 | 45.7 | 55.5 | 61.6 |
| United Kingdom of Great Britain and Northern Ireland (the) | 16.5 | 15.0 | 13.8 | 12.4 | 11.8 | 12.1 | 10.1 | 10.1 | 10.6 | 10.3 | 10.5 | 11.1 | 11.2 | 10.6 | 10.6 | 10.7 | 10.9 | 9.6 |
| • | | | | | | | | | | | | | | 67.4 | 42.0 | E2 2 | 57 F | 61.8 |
| Uzbekistan | 59.1 | 51.7 | 51.1 | 48.2 65.9 | 48.0 63.4 | 50.6 61.8 | 51.2 60.6 | 51.7 55.7 | 53.0 50.0 | 45.9 41.3 | 44.0 | 43.9 36.5 | 45.0 36.9 | 67.4 34.3 | 43.9 26.5 | 52.2 37.9 | 57.5 38.3 | 28.5 |
| Yugoslavia | 66.5 | 64.9 | 66.2 | 60.9 | 03.4 | 01.0 | 0.00 | 35.7 | 30.0 | 41.3 | 44.0 | 30.0 | 50.9 | 54.5 | 20.0 | 51.0 | 30.5 | 20.0 |
| Other territories | | | | | | | | | | | | | | | | | | |
| Andorra | | | | | | | | | 24.0 | 44.2 | 44.4 | 36.2 | 24.6 | 36.9 | | 23.9 | 25.7 | 10.5 40.4 |
| EUR | 43.2 | 40.2 | 39.3 | 37.8 | 36.4 | 36.6 | 34.9 | 33.0 | 31.6 | 28.5 | 27.1 | 29.0 | 28.1 | 28.2 | 33.3 | 37.1 | 41.2 | 40.4 |

| | | | Number o | f cases | | | | | per 100 000 | population) | | |
|--|--------------|--------------|----------|---------|---------------|---------|-------------|-------------|-------------|--------------|--------------|------|
| Country | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
| Albania | | 250 | 139 | 173 | 241 | 212 | | 7.8 | 4.4 | 5.5 | 7.7 | 6.8 |
| Armenia | | 319 | 436 | 327 | 400 | 475 | | 8.9 | 12.2 | 9.2 | 11.3 | 13.4 |
| Austria | | | 662 | 580 | 370 | | | | 8.3 | 7.2 | 4.6 | |
| Azerbaijan | 499 | 513 | 669 | 990 | 981 | 727 | 6.7 | 6.8 | 8.8 | 13.0 | 12.8 | 9.5 |
| Belarus | 1 493 | 1 775 | 1 845 | 2 117 | 2 273 | 5 047 | 14.4 | 17.1 | 17.8 | 20.4 | 22.0 | 48.9 |
| Belgium | 484 | 427 | 400 | 364 | 434 | 418 | 4.8 | 4.2 | 4.0 | 3.6 | 4.3 | 4.1 |
| Bosnia and Herzegovina | | | 865 | 927 | 803 | 640 | | | 25.3 | 27.1 | 22.8 | 17.4 |
| Bulgaria | | 3 096 | 1 087 | 903 | 1 037 | 1 325 | | 36.2 | 12.8 | 10.7 | 12.4 | 15.9 |
| Croatia | | 0 000 | 1 204 | 1 228 | 1 073 | 1 129 | | | 26.8 | 27.4 | 23.9 | 25.2 |
| Czech Republic (the) | 548 | 524 | 487 | 586 | 481 | 545 | 5.3 | 5.1 | 4.7 | 5.7 | 4.7 | 5.3 |
| Denmark | 243 | 120 | 128 | 97 | 114 | 132 | 4.7 | 2.3 | 2.4 | 1.9 | 2.2 | 2.5 |
| Estonía | 303 | 347 | 369 | 240 | 269 | 299 | 19.8 | 23.0 | 24.8 | 16.4 | 18.6 | 20.9 |
| Finland | | | 244 | 240 | 186 | 188 | | | 4.8 | 4.7 | 3.6 | 3.6 |
| France | 4 455 | 3 196 | 3 449 | 3 002 | 2 430 | | 7.7 | 5.5 | 5.9 | 5.2 | 4.2 | |
| Georgia | , | | 221 | 482 | 595 | 547 | | | 4.2 | 9.3 | 11.6 | 10.8 |
| Germany | 4 730 | 4 177 | 3 852 | 3 689 | 3 346 | 3 124 | 5.8 | 5.1 | 4.7 | 4.5 | 4.1 | 3.8 |
| Greece | | | | | 285 | 313 | | | | | 2.7 | 3.0 |
| Hungary | 1 905 | 1 357 | 796 | 1 066 | 702 | 667 | 18.5 | 13.2 | 7.8 | 10.5 | 6.9 | 6.6 |
| Iceland | | 6 | 2 | 1 | 4 | 2 | | 2.3 | 0.7 | 0.4 | 1.5 | 0.7 |
| Ireland | | | | 339 | 123 | 116 | | | | 9.3 | 3.4 | 3.2 |
| Israel | 150 | 129 | | 147 | 207 | 221 | 2.9 | 2.4 | | 2.6 | 3.5 | 3.7 |
| Italy | | 1 441 | 1 413 | 1 738 | 1 903 | 2 361 | | 2.5 | 2.5 | 3.0 | 3.3 | 4,1 |
| Kazakhstan | | | 3 022 | 4 290 | 4 332 | 6 180 | | | 18.3 | 26.1 | 26.5 | 37.9 |
| Kyrgyzstan | | 681 | 832 | 991 | 1 536 | 830 | | 15.0 | 18.2 | 21.6 | 33.3 | 17.9 |
| Latvia | 470 | | 504 | 575 | 634 | 668 | 18.0 | | 19.9 | 23.0 | 25.8 | 27.6 |
| Lithuania | 688 | | 979 | 1 121 | 1 200 | 787 | 18.4 | | 26.3 | 30.2 | 32.4 | 21.3 |
| Luxembourg | | | | 29 | 31 | 24 | | | | 7.0 | 7.4 | 5.7 |
| Malta | 13 | 6 | 5 | 5 | 3 | 6 | 3.5 | 1.6 | 1.3 | 1.3 | 8.0 | 1.6 |
| Monaco | | | | 0 | 0 | 0 | | | | | | |
| Netherlands (the) | 1 063 | | 575 | 358 | 312 | 254 | 7.0 | | 3.7 | 2.3 | 2.0 | 1.6 |
| Norway | | 86 | 62 | 103 | 100 | 49 | | 2.0 | 1.4 | 2.4 | 2.3 | 1.1 |
| Poland | 7 606 | 4 000 | 6 955 | 6 819 | 3 497 | 3 502 | 19.8 | 10.4 | 18.0 | 17.6 | 9.0 | 9.0 |
| Portugal | | 2 072 | 2 019 | 1 938 | 1 628 | 2 016 | | 21.0 | 20.5 | 19.7 | 16.5 | 20.4 |
| Republic of Moldova (the) | 615 | 704 | 665 | 219 | 397 | 477 | 14.0 | 16.1 | 15.2 | 5.0 | 9.1 | 10.9 |
| Romania | 9 339 | 10 385 | 10 469 | 10 359 | 11 666 | 10 841 | 40.7 | 45.5 | 46.1 | 45.8 | 51.7 | 48.2 |
| Russian Federation (the) | | 30 389 | 37 512 | 42 534 | 42 094 | 42 219 | | 20.5 | 25.3 | 28.8 | 28.5 | 28.6 |
| San Marino | | | | 0 | 1 | 0 | | | | | 3.8 | |
| Slovakia | 882 | 409 | 788 | 760 | 283 | 303 | 16.6 | 7.7 | 14.7 | 14.2 | 5.3 | 5.6 |
| Slovenia | 361 | 294 | 303 | 221 | 156 | 157 | 18.4 | 14.8 | 15.2 | 11.1 | 7.8 | 7.9 |
| Spain | | | 2 605 | 8 331 | 6 970 | 1 906 | | | 6.6 | 21.0 | 17.6 | 4.8 |
| Sweden | 312 | 106 | 102 | 90 | 94 | 97 | 3.6 | 1.2 | 1.2 | 1.0 | 1.1 | 1.1 |
| Switzerland | 528 | 507 | 185 | 172 | 144 | 165 | 7.5 | 7.2 | 2.6 | 2.4 | 2.0 | 2.3 |
| Tajikistan | | | 1 042 | 232 | 373 | 435 | | | 18.1 | 4.0 | 6.3 | 7.2 |
| The former Yugoslav Republic of Macedonia | | | 319 | 209 | 192 | 179 | | | 16.2 | 10.6 | 9.7 | 9.0 |
| Turkey | | | 4 383 | 2 816 | 3 439 | 3 692 | | | 7.2 | 4.5 | 5.4 | 5.7 |
| Turkmenistan | 472 | | 544 | 557 | 764 | 790 | 12.0 | | 13.3 | 13.4 | 18.0 | 18.3 |
| Ukraine | 8 314 | 8 471 | 8 263 | 7 827 | 9 533 | 10 586 | 16.1 | 16.4 | 16.1 | 15.3 | 18.7 | 20.8 |
| United Kingdom of Great Britain and Northern ireland (the) | 283 | 270 | | 4 147 | 844 | 1 342 | 0.5 | 0.5 | | 7.1 | 1.4 | 2.3 |
| Uzbekistan | | 7 487 | 2 735 | 3 350 | 3 388 | 3 504 | | 33.9 | 12.2 | 14.7 | 14.6 | 14.9 |
| Yugoslavia | | | 1 497 | 1 783 | 1 702 | 1 873 | | | 14.2 | 16.8 | 16.0 | 17.6 |
| Other territories | | | | | | | | | | | | |
| Andorra | 15 45 771 | 24 83 568 | 104 633 | 119 080 | 17 113 587 | 111 371 | 24.6 5.3 | 36.9 9.7 | 12.1 | 11.3 13.7 | 23.0 13.1 | 1.3 |
| Total | | | | | | | | | | | | 12.8 |

Notes

Andorra Began DOTS in late 1997, so treatment outcomes for DOTS areas are not yet available.

Austria No report submitted; minimal official notification data obtained by other means.

Belarus Smear results not separated from culture results. Age and sex distribution includes all cases.

Bulgaria Smear results not separated from culture results.

Denmark Data from Greenland and the Faeroe Islands are not included. (In 1998, 58 cases from Greenland were included.) Cannot distinguish between smear-negative and smearnot-done.

Estonia Notification total includes 61 relapses that were not smear-positive.

Germany New cases not separated from relapses.

Hungary DOTS started in a pilot district late in 1998 (10% of population).

Israel Treatment outcome data incomplete since DOTS was started in April 1997.

Kyrgyzstan Data are from DOTS areas only (100% by mid year 1998).

Poland Smear-positive and culture-positive cases not distinguished. New cases and relapse not distinguished.

Romania Total notifications includes 12 cases with site of disease unknown, and 519 smearnegative culture-positive relapses.

Russian Federation (the) Smear results not separated from culture results in non-DOTS areas.

Sweden Smear-negative includes 8 relapses, smear-not-done includes 8 relapses and extra pulmonary includes 5 relapses. Age and sex available for new culture positive cases only.

Switzerland Smear-negative includes 8 recurrent cases. smear-not-done new includes 28 recurrent cases. Extra-pulmonary includes 16 relapses.

Turkey Smear results not separated from culture results

United Kingdom of Great Britain and Northern Ireland (the) The total number of cases includes 34 cases with site of disease unknown, and 148 relapses.

Uzbekistan Smear results not separated from culture results in non-DOTS areas.

Yugoslavia Smear results not separated from culture results. Data from Kosovo not included.

South-East Asia

South-East Asia Region – Summary of TB control policies

| | | | | | DOTS 1 | echnical E | lements | | |
|------------------------------|--|---------------------------------|-----------------------|---------------------------------------|------------------|------------------|-----------------------|---|--------------------------------------|
| Country | Category of the country as of 31/12/97 | National manual ¹ | Training ² | Use of microscopy for diagnosis | SCC ³ | DOT ⁴ | Drug availability⁵ | Recording and reporting system ⁶ | DOTS newly implemented in 1998 |
| Bangladesh | 3 | | | | | | | | |
| Bhutan | 4 | | | | | | | | |
| Democratic People's Republic | of Korea (the) 1 | | | | | | | | Х |
| India | 2 | | | | | | | | |
| Indonesia | 3 | | | | | | | | |
| Maldives | 4 | | | | | | | | |
| Myanmar | 3 | | | | | | | | |
| Nepal | 3 | | | | | | | | |
| Sri Lanka | 4 | | | | | | | | |
| Thailand | 3 | | | | | | | | |

- 1 Presence of national manual, or a document issued by the government or an authorized scientific body, including policy recommendations endorsed by WHO
- 2 "WHO standard" training course on management of TB control programmes has been carried out within the past two years; or training materials endorsed by WHO or IUATLD
 3 Short course chemotherapy
- 4 Directly observed treatment
- 5 A regular supply system of all essential anti-tuberculosis drugs and diagnostic materials
- 6 Presence of WHO/IUALTD recommended recording and reporting system showing assessment of treatment results

dark pink fully implemented (more than 90% of country)

light pink implemented in part of country

not implemented grey white unknown

| | | Cou | intry I | nformatio | on (19 | 98) | | | | WH | O TB Co | ntrol | Strateg | y (DOT | S) | |
|---|---------------|-----------|----------|-----------|--------|--------------------|---------------------|-------|-------------|-------|------------|-------|-----------------|---------|-------|-----------------------|
| | | | | | | | | | | | Cove | erage | | | | % new |
| Countries | | | Notified | Cases | | New ss+ | % case | Cate- | Populatio | n | Notified c | ases | % | New ss+ | cases | ss+ out of all new |
| | Population | All type | s | New ss- | + | cases estimated | detection of new | gory | No. | (%) | No. | Rate | cases out of | notifie | | pulm. |
| | | No. | Rate | No. | Rate | estimated | ss+ cases | | | | | | all cases | No. | Rate | cases |
| | а | b | С | d | е | f | d/f | g | h | h/a | i | j | k | I | m | n |
| Bangladesh | 124 773 789 | 72 256 | 57.9 | 37 737 | 30.2 | 137 318 | 27.5 | 3 | 112 296 410 | 90.0 | 52 861 | 47.1 | 73.2 | 33 220 | 29.6 | 67.9 |
| Bhutan | 2 003 605 | 1 292 | 64.5 | 270 | 13.5 | 1 275 | 21.2 | 4 | 2 003 605 | 100.0 | 1 292 | 64.5 | 100.0 | 270 | 13.5 | 30.0 |
| Democratic People's Republic of Korea (the) | 23 347 614 | 1 152 | 4.9 | 403 | 1.7 | 18 560 | 2.2 | 1 | | | | | | | | |
| India | 982 222 827 | 1 130 038 | 115.0 | 284 066 | 28.9 | 818 209 | 34.7 | 2 | 88 400 054 | 9.0 | 29 674 | 33.6 | 2.6 | 12 421 | 14.1 | 52.4 |
| Indonesia | 206 337 751 | 40 497 | 19.6 | 32 280 | 15.6 | 265 522 | 12.2 | 3 | 165 070 201 | 80.0 | 40 497 | 24.5 | 100.0 | 32 280 | 19.6 | 83.1 |
| Maldives | 270 847 | 175 | 64.6 | 88 | 32.5 | 107 | 82.2 | 4 | 270 847 | 100.0 | 175 | 64.6 | 100.0 | 88 | 32.5 | 64.2 |
| Myanmar | 44 497 002 | 14 756 | 33.2 | 10 089 | 22.7 | 36 426 | 27.7 | 3 | 26 822 793 | 60.3 | 14 756 | 55.0 | 100.0 | 10 089 | 37.6 | 82.0 |
| Nepal | 22 847 345 | 24 135 | 105.6 | 11 306 | 49.5 | 21 937 | 51.5 | 3 | 3 884 049 | 17.0 | 6 715 | 172.9 | 27.8 | 3 421 | 88.1 | 65.7 |
| Sri Lanka | 18 455 021 | 7 024 | 38.1 | 3 747 | 20.3 | 5 019 | 74.7 | 4 | 17 532 270 | 95.0 | 7 024 | 40.1 | 100.0 | 3 747 | 21.4 | 66.3 |
| Thailand | 60 300 193 | 15 850 | 26.3 | 7 962 | 13.2 | 37 378 | 21.3 | 3 | 19 296 062 | 32.0 | 15 850 | 82.1 | 100.0 | 7 962 | 41.3 | 56.4 |
| Regional Total | 1 485 055 994 | 1 307 175 | 88.0 | 387 948 | 26.1 | 1 341 751 | 28.9 | | 435 576 290 | 29.3 | 168 844 | 38.8 | 12.9 | 103 498 | 23.8 | 69.1 |

| | | Cou | ntry I | nformatio | on (19 | 98) | | | | (| Other Str | rategy | / (non- | DOTS) | | |
|---|---------------|-----------|----------|-----------|--------|-----------|---------------------|------|-------------|-------|------------|--------|---------------------|---------|------|-----------------------|
| | | | | | | | | | | | Cove | erage | | | | % new |
| Countries | | | Notified | Cases | | New ss+ | % case | Cate | Populatio | n | Notified c | ases | % | New ss+ | | ss+ out of all new |
| | Population | All type | s | New ss | + | cases | detection | gory | No. | (%) | No. | Rate | cases | notifie | ed | pulm. |
| | | No. | Rate | No. | Rate | estimated | of new ss+ cases | | | | | | out of all cases | No. | Rate | cases |
| | а | b | С | d | е | f | d/f | g | h | h/a | i | j | k | 1 | m | n |
| Bangladesh | 124 773 789 | 72 256 | 57.9 | 37 737 | 30.2 | 137 318 | 27.5 | 3 | 24 954 758 | 20.0 | 19 395 | 77.7 | 26.8 | 4 517 | 18.1 | 26.0 |
| Bhutan | 2 003 605 | 1 292 | 64.5 | 270 | 13.5 | 1 275 | 21.2 | 4 | | | | | | | | |
| Democratic People's Republic of Korea (the) | 23 347 614 | 1 152 | 4.9 | 403 | 1.7 | 18 560 | 2.2 | 1 | 23 347 614 | 100.0 | 1 152 | 4.9 | 100.0 | 403 | 1.7 | 46.8 |
| India | 982 222 827 | 1 130 038 | 115.0 | 284 066 | 28.9 | 818 209 | 34.7 | 2 | 893 822 773 | 91.0 | 1 100 364 | 123.1 | 97.4 | 271 645 | 30.4 | 26.3 |
| Indonesia | 206 337 751 | 40 497 | 19.6 | 32 280 | 15.6 | 265 522 | 12.2 | 3 | | | | | | | | |
| Maldives | 270 847 | 175 | 64.6 | 88 | 32.5 | 107 | 82.2 | 4 | | | | | | | | |
| Myanmar | 44 497 002 | 14 756 | 33.2 | 10 089 | 22.7 | 36 426 | 27.7 | 3 | | | | | | | | |
| Nepal | 22 847 345 | 24 135 | 105.6 | 11 306 | 49.5 | 21 937 | 51.5 | 3 | 18 963 296 | 83.0 | 17 420 | 91.9 | 72.2 | 7 885 | 41.6 | 54.0 |
| Sri Lanka | 18 455 021 | 7 024 | 38.1 | 3 747 | 20.3 | 5 019 | 74.7 | 4 | | | | | | | | |
| Thailand | 60 300 193 | 15 850 | 26.3 | 7 962 | 13.2 | 37 378 | 21.3 | 3 | 41 004 131 | 68.0 | | | | | | |
| Regional Total | 1 485 055 994 | 1 307 175 | 88.0 | 387 948 | 26.1 | 1 341 751 | 28.9 | | 002 092 572 | 67.5 | 1 138 331 | 113.6 | 87.1 | 284 450 | 28.4 | 26.7 |

Regional Profile - SEAR cont'd.

| | | | | | | V | VHO ' | TB Co | ontrol S | trategy | (DO | TS) | | | | | | |
|---|------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|-----------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|
| | | | | | | | Trea | atmer | t Outco | mes ir | า 199 | 7 | | | | | | |
| _ | | | | New | ss+ ca | ses | | | | | | | Retrea | tment | cases | i | | |
| Countries | Registered | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) | Register -ed | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) |
| | o | р | q | r | s | t | и | v | w | Х | У | Z | aa | ab | ac | ad | ae | af |
| Bangladesh | 26 374 | 2.7 | 72.9 | 5.6 | 10.1 | 1.4 | 4.8 | 2.6 | 78.4 | 1 131 | 25.4 | 53.5 | 4.2 | 8.1 | 2.2 | 3.1 | 3.5 | 57.6 |
| Bhutan | 284 | 0.0 | 52.8 | 31.7 | 2.1 | 2.1 | 5.6 | 5.6 | 84.5 | 8 | 0.0 | 75.0 | 12.5 | | | 12.5 | | 87.5 |
| Democratic People's Republic of Korea (the) | | | | | | | | | | | | | | | | | | |
| India | 7 689 | 0.1 | 80.4 | 1.4 | 8.7 | 3.4 | 3.5 | 2.5 | 81.8 | 2 306 | 4.2 | 62.2 | 3.0 | 14.7 | 5.6 | 7.4 | 2.9 | 65.2 |
| Indonesia | 21 355 | 41.2 | 46.7 | 7.8 | 1.7 | 1.0 | 1.1 | 0.5 | 54.5 | | | | | | | | | |
| Maldives | 94 | 0.0 | 94.7 | | 1.1 | | 4.3 | | 94.7 | 5 | 0.0 | 100.0 | | | | | | 100.0 |
| Myanmar | 9 232 | 0.0 | 72.9 | 8.9 | 9.8 | 1.2 | 4.6 | 2.6 | 81.8 | 1 745 | 0.0 | 60.7 | 13.5 | 11.3 | 3.7 | 6.2 | 4.5 | 74.2 |
| Nepal | 1 771 | 0.3 | 84.7 | 2.1 | 6.2 | 1.5 | 3.5 | 1.8 | 86.8 | 373 | 1.1 | 74.8 | 3.5 | 5.6 | 4.8 | 7.0 | 3.2 | 78.3 |
| Sri Lanka | 3 617 | 0.1 | 69.8 | 6.7 | 12.5 | 0.8 | 3.1 | 7.0 | 76.5 | 442 | 0.2 | 34.8 | 24.2 | 19.7 | 3.6 | 6.3 | 11.1 | 59.0 |
| Thailand | 1 059 | 18.7 | 59.8 | 2.4 | 8.2 | 1.7 | 4.9 | 4.3 | 62.1 | 238 | 18.5 | 52.9 | 2.1 | 10.5 | 4.6 | 7.6 | 3.8 | 55.0 |
| Regional Total | 71 475 | 13.6 | 65.8 | 6.2 | 7.3 | 1.4 | 3.4 | 2.2 | 72.0 | 6 248 | 6.9 | 58.7 | 7.7 | 12.2 | 4.2 | 6.2 | 4.1 | 66.4 |

Regional Profile - SEAR cont'd.

| | | | ***** | | | | 01 | her S | trategy | (non-E | OTS | 5) | | | | | | |
|---|------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|-----------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|
| | | | | | | | Tre | atme | nt Outc | omes i | n 199 | 97 | | | | | | |
| | | | New s | s+ cas | es (Sh | ort Co | urse) | | | | | New s | s+ cas | es (O | ther Re | gimen |) | |
| Countries | Registered | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) | Register -ed | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) |
| | 0 | p | q | r | s | t | и | v | w | х | У | Z | aa | ab | ac | ad | ae | af |
| Bangladesh | 7 410 | 0.1 | 42.8 | 11.4 | 37.1 | 0.7 | 0.5 | 7.4 | 54.3 | | | | | | | | | |
| Bhutan | | | | | | | | | | | | | | | | | | |
| Democratic People's Republic of Korea (the) | 302 | 53.6 | 31.5 | 2.6 | 0.3 | 4.3 | 7.0 | 0.7 | 34.1 | | | | | | | | | |
| India | 285 794 | 83.4 | | 16.6 | | | | | 16.6 | | | | | | | | | |
| Indonesia | | | | | | | | | | | | | | | | | | |
| Maldives | | | | | | | | | | | | | | | | | | |
| Myanmar | | | | | | | | · | | | | | | | | | | |
| Nepal | 8 851 | 15.4 | 48.3 | 17.6 | 12.6 | 1.2 | 2.7 | 2.2 | 65.9 | | | | | | | | | |
| Sri Lanka | | | | | | | | | | | | | | | | | | |
| Thailand | 2 638 | 23.5 | 52.9 | 3.7 | 8.8 | 1.4 | 6.0 | 3.6 | 56.6 | | | | | | | | | |
| Regional Total | 304 995 | 78.8 | 2.9 | 16.4 | 1.3 | 0.1 | 0.1 | 0.3 | 19.3 | | | | | | | | | |

SEAR - Notification rates by age and sex, 1998.

| | | | | MALE | | | | | | | F | EMALE | | | | | | | | ALL | | | | |
|---|------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|-------|-------------|-------|
| Age groups | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | <u>≥</u> 65 | Total |
| Bangladesh | 1.1 | 23.8 | 63.6 | 94.3 | 102.8 | 125.0 | 136.2 | 42.1 | 1.9 | 19.0 | 35.9 | 33.1 | 29.2 | 26.1 | 16.8 | 17.7 | 1.5 | 21.5 | 49.9 | 63.9 | 68.0 | 78.7 | 75.9 | 30.2 |
| Bhutan | 0.7 | 24.1 | 28.7 | 24.3 | 35.1 | 46.0 | 24.9 | 16.4 | 1.7 | 24.8 | 19.6 | 25.7 | 11.7 | 22.1 | 14.6 | 12.9 | 1.2 | 24.4 | 24.2 | 25.0 | 23.4 | 33.8 | 19.4 | 14.7 |
| Democratic People's Republic of Korea (the) | 0.0 | 1.1 | 1.4 | 1.9 | 3.2 | 4.5 | 6.6 | 1.6 | 0.0 | 0.6 | 1.0 | 1.4 | 2.5 | 2.8 | 2.0 | 1.0 | 0.0 | 0.9 | 1.2 | 1.7 | 2.9 | 3.7 | 3.6 | 1.3 |
| India | 0.0 | 1.9 | 2.5 | 2.9 | 3.3 | 3.2 | 1.9 | 1.7 | 0.1 | 1.6 | 1.5 | 1.2 | 0.9 | 0.7 | 0.4 | 0.8 | 0.1 | 1.7 | 2.0 | 2.1 | 2.1 | 1.9 | 1.1 | 1.3 |
| Indonesia | 0.2 | 12.9 | 21.9 | 31.5 | 43.1 | 45.6 | 36.4 | 17.9 | 0.3 | 13.0 | 19.4 | 23.7 | 27.4 | 25.1 | 12.6 | 13.5 | 0.3 | 12.9 | 20.7 | 27.6 | 35.1 | 34.9 | 23.5 | 15.6 |
| Maldives | 1.6 | 68.8 | 95.7 | 60.9 | 52.6 | 102.1 | 41.2 | 41.7 | 1.7 | 48.9 | 29.1 | 7.9 | 78.0 | 81.6 | 0.0 | 22.8 | 1.7 | 59.0 | 63.9 | 34.9 | 65.4 | 92.8 | 21.4 | 32.5 |
| Myanmar | 1.0 | 16.6 | 37.1 | 55.2 | 69.3 | 63.3 | 48.2 | 28.6 | 1.1 | 13.9 | 24.7 | 28.8 | 32.4 | 28.5 | 21.6 | 16.9 | 1.1 | 15.3 | 30.9 | 41.8 | 50.5 | 45.0 | 33.9 | 22.7 |
| Nepal | 2.7 | 70.3 | 102.0 | 137.2 | 162.4 | 166.8 | 121.8 | 64.3 | 3.8 | 51.7 | 51.4 | 53.1 | 49.9 | 43.3 | 43.3 | 31.4 | 3.2 | 61.3 | 75.6 | 93.8 | 105.5 | 106.5 | 82.6 | 48.0 |
| Sri Lanka | 0.3 | 12.9 | 29.0 | 52.1 | 74.4 | 78.5 | 56.6 | 29.8 | 0.9 | 12.8 | 15.4 | 12.6 | 17.7 | 19.4 | 14.9 | 11.1 | 0.6 | 12.8 | 22.1 | 31.3 | 44.8 | 47.8 | 34.9 | 20.3 |
| Thailand | 0.1 | 7.1 | 19.7 | 25.4 | 33.2 | 54.7 | 71.4 | 18.3 | 0.2 | 5.1 | 7.0 | 7.3 | 14.0 | 24.8 | 31.9 | 8.2 | 0.2 | 6.1 | 13.4 | 16.3 | 23.5 | 39.0 | 49.3 | 13.2 |
| SEAR | 0.2 | 7.5 | 13.3 | 18.1 | 22.1 | 24.5 | 21.4 | 10.0 | 0.4 | 6.5 | 8.9 | 9.0 | 9.1 | 8.6 | 6.0 | 5.5 | 0.3 | 7.0 | 11.2 | 13.7 | 15.7 | 16.4 | 13.3 | 7.8 |

SEAR - Age and sex distribution of smear-positive TB cases in DOTS areas, 1998 (absolute numbers).

| | | | | | MALE | | | | | | | F | EMALE | | | | | | | | ALL | | | | |
|------------|------------|------|-------|--------|--------|--------|-------|-------|--------|------|-------|-------|-------|-------|-------|-------|--------|-------|--------|--------|--------|--------|--------|-------|---------|
| | Age groups | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total |
| Bangladesh | | 218 | 3047 | 5176 | 5544 | 4238 | 3158 | 2320 | 23 701 | 373 | 2264 | 2875 | 1904 | 1088 | 586 | 280 | 9 370 | 591 | 5 311 | 8 051 | 7 448 | 5 326 | 3 744 | 2 600 | 33 071 |
| Bhutan | | 3 | 45 | 39 | 24 | 24 | 22 | 9 | 166 | 7 | 45 | 26 | 25 | 8 | 11 | 6 | 128 | 10 | 90 | 65 | 49 | 32 | 33 | 15 | 294 |
| India | | 84 | 1773 | 2013 | 1851 | 1389 | 885 | 419 | 8 414 | 190 | 1375 | 1121 | 670 | 349 | 200 | 102 | 4 007 | 274 | 3 148 | 3 134 | 2 521 | 1 738 | 1 085 | 521 | 12 421 |
| Indonesia | | 78 | 2732 | 3873 | 4054 | 3486 | 2654 | 1517 | 18 394 | 108 | 2674 | 3412 | 3130 | 2335 | 1610 | 617 | 13 886 | 186 | 5 406 | 7 285 | 7 184 | 5 821 | 4 264 | 2 134 | 32 280 |
| Maldives | | 1 | 19 | 18 | 8 | 4 | 6 | 2 | 58 | 1 | 13 | 5 | 1 | 6 | 4 | 0 | 30 | 2 | 32 | 23 | 9 | 10 | 10 | 2 | 88 |
| Myanmar | | 64 | 798 | 1491 | 1584 | 1187 | 763 | 438 | 6 325 | 73 | 650 | 997 | 856 | 577 | 382 | 229 | 3 764 | 137 | 1 448 | 2 488 | 2 440 | 1 764 | 1 145 | 667 | 10 089 |
| Nepal | | 45 | 354 | 451 | 477 | 373 | 202 | 91 | 1 993 | 81 | 222 | 389 | 272 | 198 | 179 | 87 | 1 428 | 126 | 576 | 840 | 749 | 571 | 381 | 178 | 3 421 |
| Sri Lanka | | 7 | 237 | 430 | 628 | 663 | 445 | 304 | 2 714 | 22 | 228 | 235 | 169 | 173 | 119 | 87 | 1 033 | 29 | 465 | 665 | 797 | 836 | 564 | 391 | 3 747 |
| Thailand | | 11 | 427 | 1153 | 1098 | 892 | 945 | 985 | 5 511 | 17 | 297 | 401 | 317 | 386 | 475 | 558 | 2 451 | 28 | 724 | 1 554 | 1 415 | 1 278 | 1 420 | 1 543 | 7 962 |
| | SEAR | 511 | 9 432 | 14 644 | 15 268 | 12 256 | 9 080 | 6 085 | 67 276 | 872 | 7 768 | 9 461 | 7 344 | 5 120 | 3 566 | 1 966 | 36 097 | 1 383 | 17 200 | 24 105 | 22 612 | 17 376 | 12 646 | 8 051 | 103 373 |
| | % | 0.8 | 14.0 | 21.8 | 22.7 | 18.2 | 13.5 | 9.0 | 100 | 2.4 | 21.5 | 26.2 | 20.3 | 14.2 | 9.9 | 5.4 | 100 | 1.3 | 16.6 | 23.3 | 21.9 | 16.8 | 12.2 | 7.8 | 100 |

SEAR - Age and sex distribution of smear-positive TB cases in non-DOTS areas, 1998 (absolute numbers).

| | | | | MALE | | | | | | | F | EMALE | | | | | | | | ALL | | | | |
|---|------|-------|-------|-------|-------|-------|-----|-------|------|-------|-------|-------|-------|-------|----------------|-------|------|-------|-------|-------|-------|-------|-----|--------|
| Age groups | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | <u>></u> 65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total |
| Bangladesh | 36 | 469 | 812 | 698 | 533 | 364 | 249 | 3 161 | 65 | 399 | 444 | 252 | 124 | 63 | 44 | 1 391 | 101 | 868 | 1 256 | 950 | 657 | 427 | 293 | 4 552 |
| Democratic People's Republic of Korea (the) | 0 | 21 | 36 | 34 | 36 | 31 | 25 | 183 | 0 | 11 | 24 | 24 | 25 | 20 | 15 | 119 | 0 | 32 | 60 | 58 | 61 | 51 | 40 | 302 |
| India | | | | | | | | | | | | | | | | | | | | | | | | |
| Nepal | 88 | 1267 | 1071 | 1023 | 919 | 682 | 389 | 5 439 | 92 | 890 | 449 | 349 | 209 | 40 | 83 | 2 112 | 180 | 2 157 | 1 520 | 1 372 | 1 128 | 722 | 472 | 7 551 |
| Thailand | | | | | | | | | | | | | | | | | | | | | | | | |
| SEAR | 124 | 1 757 | 1 919 | 1 755 | 1 488 | 1 077 | 663 | 8 783 | 157 | 1 300 | 917 | 625 | 358 | 123 | 142 | 3 622 | 281 | 3 057 | 2 836 | 2 380 | 1 846 | 1 200 | 805 | 12 405 |
| % | 1.4 | 20.0 | 21.8 | 20.0 | 16.9 | 12.3 | 7.5 | 100 | 4.3 | 35.9 | 25.3 | 17.3 | 9.9 | 3.4 | 3.9 | 100 | 2.3 | 24.6 | 22.9 | 19.2 | 14.9 | 9.7 | 6.5 | 100 |

SEAR - Number of tuberculosis cases notified, 1981-1998

| Country | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
|---|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Bangladesh | 42 644 | 49 870 | 52 961 | 45 679 | 41 802 | 45 599 | 45 355 | 44 280 | 45 191 | 48 673 | 56 052 | 31 400 | 54 001 | 48 276 | 56 437 | 63 471 | 63 420 | 72 256 |
| Bhutan | 2 657 | 720 | 1 017 | 904 | 1 073 | 1 582 | 608 | 1 126 | 1 525 | 1 154 | 996 | 140 | 108 | 1 159 | 1 299 | 1 271 | 1 211 | 1 292 |
| Democratic People's Republic of Korea (the) | | | | | | | | | | | | | | | | | 11 050 | 1 152 |
| India | 769 540 | 923 095 | 1 075 098 | 1 109 310 | 1 168 804 | 1 279 536 | 1 403 122 | 1 457 288 | 1 510 500 | 1 519 182 | 1 555 353 | 1 121 120 | 1 081 279 | 1 114 374 | 1 219 923 | 1 300 935 | 1 135 983 | 1 130 038 |
| Indonesia | 32 461 | 33 000 | 31 809 | 32 432 | 17 681 | 16 750 | | 97 505 | 105 516 | 74 470 | 469 832 | 98 458 | 62 966 | 49 647 | 35 529 | 24 647 | 22 184 | 40 497 |
| Maldives | 112 | 111 | 143 | 123 | 91 | 111 | 115 | 85 | 203 | 152 | 123 | 92 | 175 | 249 | 231 | 212 | 173 | 175 |
| Myanmar | 12 461 | 12 069 | 11 012 | 11 045 | 10 506 | 10 840 | 11 986 | 9 348 | 10 940 | 12 416 | 14 905 | 17 000 | 19 009 | 15 583 | 18 229 | 42 361 | 17 122 | 14 756 |
| Nepal | 337 | 1 459 | 700 | 190 | 52 | 252 | 1 012 | 1 603 | 11 003 | 10 142 | 8 983 | | 13 161 | 15 572 | 19 804 | 22 970 | 24 158 | 24 135 |
| Sri Lanka | 6 288 | 7 334 | 6 666 | 6 376 | 5 889 | 6 596 | 6 411 | 6 092 | 6 429 | 6 666 | 6 174 | 6 802 | 6 809 | 6 132 | 5 956 | 5 439 | 6 528 | 7 024 |
| Thailand | 49 452 | 48 553 | 65 413 | 69 240 | 77 611 | 52 152 | 51 835 | 50 021 | 44 553 | 46 510 | 43 858 | 47 697 | 49 668 | 47 767 | 45 428 | 39 871 | 30 262 | 15 850 |
| Total | 915 952 | 1 076 211 | 1 244 819 | 1 275 299 | 1 323 509 | 1 413 418 | 1 520 444 | 1 667 348 | 1 735 860 | 1 719 365 | 2 156 276 | 1 322 709 | 1 287 176 | 1 298 759 | 1 402 836 | 1 501 177 | 1 312 091 | 1 307 175 |
| No. of countries reporting | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 9 | 9 | 9 | 9 | 8 | 9 | 9 | 9 | 9 | 10 | 10 |
| % of countries reporting | 90 | 90 | 90 | 90 | 90 | 90 | 80 | 90 | 90 | 90 | 90 | 80 | 90 | 90 | 90 | 90 | 100 | 100 |

SEAR - Case notification rates (per 100 000 population), 1981-1998

| Country | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Bangladesh | 47.1 | 53.7 | 55.7 | 47.0 | 42.1 | 44.9 | 43.8 | 41.9 | 42.0 | 44.5 | 50.4 | 27.8 | 47.0 | 41.4 | 47.6 | 52.6 | 51.7 | 57.9 |
| Bhutan | 197.0 | 52.2 | 72.0 | 62.4 | 72.2 | 103.6 | 38.7 | 69.7 | 91.9 | 68.0 | 57.6 | 8.0 | 6.1 | 64.0 | 70.3 | 67.2 | 62.2 | 64.5 |
| Democratic People's Republic of Korea (the) | | | | | | | | | | | | | | | | | 48.1 | 4.9 |
| India | 109.3 | 128.3 | 146.2 | 147.6 | 152.2 | 163.1 | 175.2 | 178.3 | 181.1 | 178.6 | 179.3 | 126.8 | 120.0 | 121.5 | 130.7 | 136.9 | 117.6 | 115.0 |
| Indonesia | 21.1 | 21.0 | 19.8 | 19.8 | 10.6 | 9.8 | | 55.2 | 58.7 | 40.7 | 252.9 | 52.2 | 32.9 | 25.5 | 18.0 | 12.3 | 10.9 | 19.6 |
| Maldives | 68.8 | 66.2 | 82.8 | 69.1 | 49.6 | 58.5 | 58.7 | 42.0 | 97.1 | 70.5 | 55.3 | 40.2 | 74.3 | 102.8 | 92.7 | 82.8 | 65.7 | 64.6 |
| Myanmar | 36.1 | 34.2 | 30,5 | 30.0 | 28.0 | 28.4 | 30.9 | 23.7 | 27.4 | 30.6 | 36.3 | 41.0 | 45.3 | 36.8 | 42.5 | 97.6 | 39.0 | 33.2 |
| Nepal | 2.3 | 9.6 | 4.5 | 1.2 | 0.3 | 1.5 | 5.8 | 9.0 | 60.1 | 54.0 | 46.7 | | 65.0 | 75.0 | 93.1 | 105.4 | 108.3 | 105.6 |
| Sri Lanka | 41.7 | 47.9 | 42.8 | 40.3 | 36.7 | 40.6 | 38.9 | 36.5 | 38.1 | 39.1 | 35.8 | 39.1 | 38.7 | 34.6 | 33.2 | 30.1 | 35.7 | 38.1 |
| Thailand | 103.8 | 100.0 | 132.4 | 137.7 | 151.7 | 100.2 | 97.8 | 92.8 | 81.3 | 83.7 | 77.9 | 83.8 | 86.4 | 82.3 | 77.5 | 67.4 | 50.7 | 26.3 |
| SEAR | 84.8 | 97.5 | 110.4 | 110.7 | 112.5 | 117.7 | 124.1 | 133.5 | 136.3 | 132.5 | 163.2 | 98.4 | 94.1 | 93.3 | 99.2 | 104.4 | 89.8 | 88.0 |

SEAR - New smear-positive cases

| The state of the s | | | Number o | f cases | | | | Rate (| per 100 000 | population |) | |
|--|---------|---------|----------|---------|---------|---------|------|--------|-------------|------------|------|------|
| Country | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
| Bangladesh | 18 993 | 1 710 | 20 524 | 29 674 | 33 117 | 37 737 | 16.5 | 1.5 | 17.3 | 24.6 | 27.0 | 30.2 |
| Bhutan | | 352 | 367 | 308 | 284 | 270 | | 19.4 | 19.9 | 16.3 | 14.6 | 13.5 |
| Democratic People's Republic of Korea (the) | | | | | 3 980 | 403 | | | | | 17.3 | 1.7 |
| India | 225 256 | 226 543 | 264 618 | 291 205 | 273 519 | 284 066 | 25.0 | 24.7 | 28.3 | 30.7 | 28.3 | 28.9 |
| Indonesia | 62 966 | 49 647 | 31 768 | 11 790 | 19 492 | 32 280 | 32.9 | 25.5 | 16.1 | 5.9 | 9.6 | 15.6 |
| Maldives | 126 | 125 | 114 | 106 | 94 | 88 | 53.5 | 51.6 | 45.8 | 41.4 | 35.7 | 32.5 |
| Myanmar | | | 8 681 | 9 716 | 9 695 | 10 089 | | | 20.2 | 22.4 | 22.1 | 22.7 |
| Nepal | 6 679 | 10 442 | 8 591 | 10 365 | 11 323 | 11 306 | 33.0 | 50.3 | 40.4 | 47.6 | 50.7 | 49.5 |
| Sri Lanka | 3 335 . | 3 405 | 3 049 | 2 958 | 3 506 | 3 747 | 19.0 | 19.2 | 17.0 | 16.3 | 19.2 | 20.3 |
| Thailand | | 20 260 | 20 273 | 16 997 | 13 214 | 7 962 | | 34.9 | 34.6 | 28.7 | 22.1 | 13.2 |
| Total | 317 355 | 312 484 | 357 985 | 373 119 | 368 224 | 387 948 | 23.2 | 22.5 | 25.3 | 25.9 | 25.2 | 26.1 |

Notes

Democratic People's Republic of Korea (the) DOTS started in 1998, so treatment outcomes for DOTS areas are not yet available.

Western Pacific

Western Pacific Region – Summary of TB control policies

| Country Category of the country as of 31/12/97 National manual¹ Image: property of the manual² Image: property of the manual² | Use of microscopy or diagnosis | SCC3 DOT4 | Drug availability ⁵ | Recording and reporting system ⁶ | DOTS newly implemented in 1998 |
|---|--------------------------------|-----------|-----------------------------------|---|--------------------------------------|
| Australia 3 Brunei Darussalam 0 Cambodia 4 China 3 China, Hong Kong SAR 1 China, Macao SAR 4 Cook Islands 3 Fiji 4 French Polynesia 4 Guam 0 Japan 1 Kiribati 4 | | | | | |
| Brunei Darussalam 0 Cambodia 4 China 3 China, Hong Kong SAR 1 China, Macao SAR 4 Cook Islands 3 Fiji 4 French Polynesia 4 Guam 0 Japan 1 Kiribati 4 | | | | | |
| Cambodia 4 China 3 China, Hong Kong SAR 1 China, Macao SAR 4 Cook Islands 3 Fiji 4 French Polynesia 4 Guam 0 Japan 1 Kiribati 4 | | | | | |
| China 3 China, Hong Kong SAR 1 China, Macao SAR 4 Cook Islands 3 Fiji 4 French Polynesia 4 Guam 0 Japan 1 Kiribati 4 | | | | | |
| China, Hong Kong SAR 1 China, Macao SAR 4 Cook Islands 3 Fiji 4 French Polynesia 4 Guam 0 Japan 1 Kiribati 4 | | | | | |
| China, Macao SAR Cook Islands Fiji French Polynesia Guam Japan I Kiribati 4 Cook Islands 3 Fiji 4 French Polynesia 4 Guam 0 Japan 1 Kiribati | | | | | |
| Cook Islands 3 Fiji 4 French Polynesia 4 Guam 0 Japan 1 Kiribati 4 | | | | | |
| Fiji 4 French Polynesia 4 Guam 0 Japan 1 Kiribati 4 | | | | | |
| French Polynesia 4 Guam 0 Japan 1 Kiribati 4 | | | | | |
| Guam 0 Japan 1 Kiribati 4 | | | | | |
| Guam 0 Japan 1 Kiribati 4 | | | | | |
| Kiribati 4 | | | | | |
| | | | | | |
| Lan Pennle's Democratic Republic (the) 3 | | | | | Х |
| Lao i copic i Democratic Nepublic (tite) | | | | | |
| Malaysia 1 | | | | | |
| Marshall Islands (the) 3 | | | | | Х |
| Micronesia (Federated States of) | | | | | |
| Mongolia 4 | | | | | |
| Nauru 0 | | | | | |
| New Caledonia 0 | | | | | |
| New Zealand 5 | | | | | |
| Niue 5 | | | | | |
| Northern Mariana Islands | | | | | |
| (Commonwealth of) 5 | | | | | |
| Palau 0 | | | | | |
| Papua New Guinea 2 | | | | | |
| Philippines (the) 3 | | | | | |
| Republic of Korea (the) 4 | | | | | |
| Samoa 1 | | | | | |
| Singapore 1 | | | | | |
| Solomon Islands 4 | | | | | |
| Tokelau 0 | | | | | |
| Tonga 4 | | | | | |
| Tuvalu 5 | | | | | |
| Vanuatu 1 | | | | | |
| Viet Nam 4 | | | | | |
| Wallis and Futuna Islands 0 | | | | | |

- 1 Presence of national manual, or a document issued by the government or an authorized scientific body, including policy recommendations endorsed by WHO
- 2 "WHO standard" training course on management of TB control programmes has been carried out within the past two years; or training materials endorsed by WHO or IUATLD
- 3 Short course chemotherapy
- 4 Directly observed treatment
- $5\quad A\ regular\ supply\ system\ of\ all\ essential\ anti-tuber culosis\ drugs\ and\ diagnostic\ materials$
- 6 Presence of WHO/IUALTD recommended recording and reporting system showing assessment of treatment results

dark pink $\,$ fully implemented (more than 90% of country)

light pink implemented in part of country

grey not implemented white unknown

| | | Cou | ntry I | nformatio | on (19 | 98) | | | | WH | О ТВ Со | ntrol | Strateg | y (DOT | S) | |
|--|---------------|----------|----------|-----------|--------|--------------------|------------------|-------|-------------|-------|-------------|-------|-----------------|---------|-------|-----------------------|
| | | | | | | | | | | | Cove | erage | | | | % new |
| Countries | | | Notified | Cases | | New ss+ | | Cate- | Populatio | n | Notified ca | ases | % | New ss+ | | ss+ out of all new |
| | Population | All type | s | New ss- | + | cases estimated | detection of new | gory | No. | (%) | No. | Rate | cases out of | notifi | | pulm. |
| | | No. | Rate | No. | Rate | Communica | ss+ cases | | | | | | all cases | No. | Rate | cases |
| | а | b | С | d | е | f | d/f | g | h | h/a | i | i | k | 1 | m | n |
| Australia | 18 520 306 | 899 | 4.9 | 203 | 1.1 | 664 | 30.6 | | 6 852 513 | 37.0 | 424 | 6.2 | 47.2 | 116 | 1.7 | 47.5 |
| Brunei Darussalam | 315 120 | | | | | 81 | | 0 | | | | | | | | |
| Cambodia | 10 715 629 | 16 946 | 158.1 | 13 865 | 129.4 | 25 890 | 53.6 | | 10 715 629 | 100.0 | 16 946 | 158.1 | 100.0 | 13 865 | 129.4 | 95.2 |
| China | 1 255 697 749 | 457 349 | 36.4 | 214 462 | 17.1 | 636 066 | | 3 | 802 390 862 | 63.9 | 336 535 | 41.9 | 73.6 | 191 290 | 23.8 | 59.6 |
| China, Hong Kong SAR | 6 660 178 | 7 673 | 115.2 | | | 2 621 | | 1 | | | | | | | | |
| China, Macao SAR | 459 022 | 463 | 100.9 | 226 | 49.2 | 456 | 49.6 | 4 | 459 022 | 100.0 | 463 | 100.9 | 100.0 | 226 | 49.2 | 56.8 |
| Cook Islands | 20 000 | 2 | 10.0 | 1 | 5.0 | 8 | | 3 | 14 000 | 70.0 | 2 | 14.3 | 100.0 | 1 | 7.1 | 50.0 |
| Fiji | 796 080 | 166 | 20.9 | 74 | 9.3 | 327 | 22.6 | 4 | 796 080 | 100.0 | 166 | 20.9 | 100.0 | 74 | 9.3 | 63.8 |
| Japan | 126 281 198 | 44 016 | 34.9 | 11 935 | 9.5 | 16 579 | 72.0 | 1 | | | | | | | | |
| Kiribati | 83 000 | 276 | 332.5 | 50 | 60.2 | 33 | 152.4 | 4 | 83 000 | 100.0 | 276 | 332.5 | 100.0 | 50 | 60.2 | 34.5 |
| Lao People's Democratic Republic (the) | 5 163 084 | 2 165 | 41.9 | 1 508 | 29.2 | 3 997 | 37.7 | 3 | 3 665 790 | 71.0 | 2 149 | 58.6 | 99.3 | 1 494 | 40.8 | 77.1 |
| Malaysia | 21 409 576 | 14 115 | 65.9 | 7 802 | 36.4 | 10 752 | 72.6 | 1 | | | | | | | | |
| Marshall Islands (the) | 61 000 | 49 | 80.3 | 11 | 18.0 | 24 | 46.2 | 3 | 28 060 | 46.0 | 49 | 174.6 | 100.0 | 11 | 39.2 | 34.4 |
| Micronesia (Federated States of) | 516 169 | 138 | 26.7 | 28 | 5.4 | 53 | 52.8 | 1 | | | | | | | | |
| Mongolia | 2 579 051 | 2 915 | 113.0 | 1 356 | 52.6 | 2 412 | 56.2 | 4 | 2 496 521 | 96.8 | 2 725 | 109.2 | 93.5 | 1 213 | 48.6 | 63.4 |
| Nauru | 11 000 | | | | | 4 | | 0 | | | | | | | | |
| New Zealand | 3 795 875 | 367 | 9.7 | 81 | 2.1 | 84 | 96.4 | 5 | | | | | | | | |
| Niue | 2 000 | 1 | 50.0 | | | | | 1 | | | | | | | | |
| Palau | 17 000 | | | | | 6 | | 0 | | | | | | | | |
| Papua New Guinea | 4 599 690 | 11 291 | 245.5 | 2 107 | 45.8 | 5 154 | 40.9 | 2 | 413 972 | 9.0 | 2 845 | 687.2 | 25.2 | 418 | 101.0 | 23.4 |
| Philippines (the) | 72 944 489 | 159 866 | 219.2 | 71 663 | 98.2 | 100 609 | 71.2 | 3 | 12 327 619 | 16.9 | 18 286 | 148.3 | 11.4 | 10 292 | 83.5 | 59.7 |
| Republic of Korea (the) | 46 109 041 | 30 008 | 65.1 | 10 359 | 22.5 | 17 924 | 57.8 | 4 | 46 109 041 | 100.0 | 30 008 | 65.1 | 100.0 | 10 359 | 22.5 | 37.4 |
| Samoa | 174 461 | 22 | 12.6 | 7 | 4.0 | 68 | 10.3 | 1 | | | | | | | | |
| Singapore | 3 475 759 | 2 120 | 61.0 | 480 | 13.8 | 758 | 63.3 | 1 | | | | | | | | |
| Solomon Islands | 417 118 | 295 | 70.7 | 140 | 33.6 | 166 | 84.3 | 4 | 417 118 | 100.0 | 295 | 70.7 | 100.0 | 140 | 33.6 | 64.2 |
| Tokelau | 2 000 | | | | | | | 0 | | | | | | | | |
| Tonga | 99 000 | 30 | 30.3 | 16 | 16.2 | 39 | 41.0 | 4 | 97 020 | 98.0 | 30 | 30.9 | 100.0 | 16 | 16.5 | 64.0 |
| Tuvalu | 10 000 | 18 | 180.0 | | | 4 | | 1 | | | | | | | | |
| Vanuatu | 181 518 | 178 | 98.1 | 38 | 20.9 | 73 | 52.1 | 1 | | | | | | | | |
| Viet Nam | 77 562 453 | 87 449 | 112.7 | 54 873 | 70.7 | 66 066 | 83.1 | 4 | 74 459 955 | 96.0 | 84 599 | 113.6 | 96.7 | 53 147 | 71.4 | 76.2 |
| Other Territories | | | | | | | | | | | | | | | | |
| American Samoa | 59 000 | | | | | 23 | | 0 | | | | | | | | |
| French Polynesia | 227 140 | 105 | 46.2 | 34 | 15.0 | 92 | 37.0 | 4 | 227 140 | 100.0 | 105 | 46.2 | 100.0 | 34 | 15.0 | 44.7 |

| | | Cou | intry li | nformatio | n (19 | 98) | | | | WH | O TB Co | ntrol | Strate | y (DOT | S) | |
|--|---------------|----------|----------|-----------|-------|--------------------|------------------|-------|-------------|------|------------|-------|-----------------|---------|------|-----------------------|
| | | | | | | | | | | | Cov | erage | | - | | % new |
| Countries | | | Notified | Cases | | New ss+ | % case | Cate- | | n | Notified c | ases | % | New ss+ | | ss+ out of all new |
| | Population | All type | s | New ss- | + | cases estimated | detection of new | gory | No. | (%) | No. | Rate | cases out of | notifi | | pulm. |
| | | No. | Rate | No. | Rate | estillated | ss+ cases | | | | | | all cases | No. | Rate | cases |
| | а | b | С | d | е | f | d/f | g | h | h/a | i | j | k | 1 | m | n |
| Guam | 161 219 | | | | | 63 | | 0 | | | | | | | | |
| New Caledonia | 206 304 | | | | | 76 | | 0 | | | | | | | | |
| Northern Mariana Islands (Commonwealth of) | 51 000 | 97 | 190.2 | 26 | 51.0 | 20 | 131.3 | 1 | | | | | | | | |
| Wallis and Futuna Islands | 15 000 | | | | | 6 | | 0 | | | | | | | | |
| Regional Total | 1 659 398 229 | 839 019 | 50.6 | 391 345 | 23.6 | 891 198 | 43.9 | | 961 553 341 | 57.9 | 495 903 | 51.6 | 59.1 | 282 746 | 29.4 | 61.8 |

| | | Cou | ıntry lı | nformatic | on (19 | 98) | | | | (| Other Str | ategy | y (non-l | DOTS) | | |
|--|---------------|----------|----------|-----------|--------|--------------------|---------------------|-------|-------------|-------|-------------|-------|-----------------|---------|-------|-----------------------|
| | | | | | | | | | | | Cove | erage | | | | % new |
| Countries | | | Notified | Cases | | New ss+ | % case | Cate- | Populatio | n | Notified ca | ases | % | New ss+ | | ss+ out of all new |
| | Population | All type | s | New ss | + | cases estimated | detection of new | gory | No. | (%) | No. | Rate | cases out of | notifi | | pulm. |
| | | No. | Rate | No. | Rate | estimated | ss+ cases | | | | | | all cases | No. | Rate | cases |
| | а | b | С | d | е | f | d/f | g | h | h/a | i | j | k | 1 | m | n |
| Australia | 18 520 306 | 899 | 4.9 | 203 | 1.1 | 664 | 30.6 | 3 | 12 408 605 | 67.0 | 475 | 3.8 | 52.8 | 87 | 0.7 | 31.9 |
| Brunei Darussalam | 315 120 | | | | | 81 | | 0 | | | - | | | | | |
| Cambodia | 10 715 629 | 16 946 | 158.1 | 13 865 | 129.4 | 25 890 | 53.6 | 4 | | | | | | | | |
| China | 1 255 697 749 | 457 349 | 36.4 | 214 462 | 17.1 | 636 066 | 33.7 | 3 | 453 306 887 | 36.1 | 120 814 | 26.7 | 26.4 | 23 172 | 5.1 | 19.6 |
| China, Hong Kong SAR | 6 660 178 | 7 673 | 115.2 | | | 2 621 | | 1 | 6 660 178 | 100.0 | 7 673 | 115.2 | 100.0 | | | |
| China, Macao SAR | 459 022 | 463 | 100.9 | 226 | 49.2 | 456 | 49.6 | 4 | | | | | | | | |
| Cook Islands | 20 000 | 2 | 10.0 | 1 | 5.0 | 8 | 12.5 | 3 | | | | | | | | |
| Fiji | 796 080 | 166 | 20.9 | 74 | 9.3 | 327 | 22.6 | 4 | | | | | | | | - |
| Japan | 126 281 198 | 44 016 | 34.9 | 11 935 | 9.5 | 16 579 | 72.0 | 1 | 126 281 198 | 100.0 | 44 016 | 34.9 | 100.0 | 11 935 | 9.5 | 33.6 |
| Kiribati | 83 000 | 276 | 332.5 | 50 | 60.2 | 33 | 152.4 | 4 | | | | | | | | |
| Lao People's Democratic Republic (the) | 5 163 084 | 2 165 | 41.9 | 1 508 | 29.2 | 3 997 | 37.7 | 3 | 1 497 294 | 29.0 | 16 | 1.1 | 0.7 | 14 | 0.9 | 87.5 |
| Malaysia | 21 409 576 | 14 115 | 65.9 | 7 802 | 36.4 | 10 752 | 72.6 | 1 | 21 409 576 | 100.0 | 14 115 | 65.9 | 100.0 | 7 802 | 36.4 | 60.8 |
| Marshall Islands (the) | 61 000 | 49 | 80.3 | 11 | 18.0 | 24 | 46.2 | 3 | | | | | | | | |
| Micronesia (Federated States of) | 516 169 | 138 | 26.7 | 28 | 5.4 | 53 | 52.8 | 1 | 516 169 | 100.0 | 138 | 26.7 | 100.0 | 28 | 5.4 | 24.8 |
| Mongolia | 2 579 051 | 2 915 | 113.0 | 1 356 | 52.6 | 2 412 | 56.2 | 4 | 82 530 | 3.2 | 190 | 230.2 | 6.5 | 143 | 173.3 | 87.2 |
| Nauru | 11 000 | | | | | 4 | | 0 | | | | | | | | |
| New Zealand | 3 795 875 | 367 | 9.7 | 81 | 2.1 | 84 | 96.4 | 5 | 3 795 875 | 100.0 | 367 | 9.7 | 100.0 | 81 | 2.1 | 37.0 |
| Niue | 2 000 | 1 | 50.0 | | | | | 1 | | | 1 | | 100.0 | | | |
| Palau | 17 000 | | | | | 6 | | 0 | | | | | | | | |
| Papua New Guinea | 4 599 690 | 11 291 | 245.5 | 2 107 | 45.8 | 5 154 | 40.9 | 2 | 4 185 718 | 91.0 | 8 446 | 201.8 | 74.8 | 1 689 | 40.4 | 31.7 |
| Philippines (the) | 72 944 489 | 159 866 | 219.2 | 71 663 | 98.2 | 100 609 | 71.2 | 3 | 60 616 870 | 83.1 | 141 580 | 233.6 | 88.6 | 61 371 | 101.2 | 48.7 |
| Republic of Korea (the) | 46 109 041 | 30 008 | 65.1 | 10 359 | 22.5 | 17 924 | 57.8 | 4 | | | | | | | | |
| Samoa | 174 461 | 22 | 12.6 | 7 | 4.0 | 68 | 10.3 | 1 | 174 461 | 100.0 | 22 | 12.6 | 100.0 | 7 | 4.0 | 46.7 |
| Singapore | 3 475 759 | 2 120 | 61.0 | 480 | 13.8 | 758 | 63.3 | 1 | 3 475 759 | 100.0 | 2 120 | 61.0 | 100.0 | 480 | 13.8 | 29.0 |
| Solomon Islands | 417 118 | 295 | 70.7 | 140 | 33.6 | 166 | 84.3 | 4 | | | | | | | | |
| Tokelau | 2 000 | | | | | | | 0 | | | | | | | | |
| Tonga | 99 000 | 30 | 30.3 | 16 | 16.2 | 39 | 41.0 | 4 | | | | | | | | i |
| Tuvalu | 10 000 | 18 | 180.0 | : | | 4 | | 1 | 10 000 | 100.0 | 18 | 180.0 | 100.0 | | | |
| Vanuatu | 181 518 | 178 | 98.1 | 38 | 20.9 | 73 | 52.1 | 1 | 181 518 | 100.0 | 178 | 98.1 | 100.0 | 38 | 20.9 | 25.7 |
| Viet Nam | 77 562 453 | 87 449 | 112.7 | 54 873 | 70.7 | 66 066 | 83.1 | 4 | 310 250 | 0.4 | 2 850 | 918.6 | 3.3 | 1 726 | 556.3 | 74.5 |
| Other Territories | | | | | | L | | 1 | | | | | | | • | |
| American Samoa | 59 000 | | | | | 23 | | 0 | | | | | | | | |
| French Polynesia | 227 140 | 105 | 46.2 | 34 | 15.0 | 92 | 37.0 | 4 | | | | | | | | |

| | | Cou | intry li | nformatio | n (19 | 98) | | | | (| Other St | rategy | / (non- | DOTS) | | |
|--|---------------|----------|----------|-----------|-------|--------------------|------------------|-------|-------------|-------|------------|--------|-----------------|---------|------|-----------------------|
| | | | | | | | | | | | Cov | erage | | | | % new |
| Countries | | | Notified | Cases | | New ss+ | % case | Cate- | Populatio | n | Notified o | ases | % | New ss+ | | ss+ out of all new |
| | Population | All type | s | New ss | + | cases estimated | detection of new | gory | No. | (%) | No. | Rate | cases out of | notifi | | pulm. |
| | | No. | Rate | No. | Rate | esumated | ss+ cases | | | | | | all cases | No. | Rate | cases |
| | а | b | С | d | е | f | d/f | g | h | h/a | i | j | k | 1 | m | n |
| Guam | 161 219 | | | | | 63 | | 0 | | | | | | | | |
| New Caledonia | 206 304 | | | | | 76 | | 0 | | | | | | | | |
| Northern Mariana Islands (Commonwealth of) | 51 000 | 97 | 190.2 | 26 | 51.0 | 20 | 131.3 | 1 | 51 000 | 100.0 | 97 | 190.2 | 100.0 | 26 | 51.0 | 28.6 |
| Wallis and Futuna Islands | 15 000 | | | | | 6 | 3 | 0 | | | | | | | | |
| Regional Total | 1 659 398 229 | 839 019 | 50.6 | 391 345 | 23.6 | 891 198 | 43.9 |) | 694 963 888 | 41.9 | 343 116 | 49.4 | 40.9 | 108 599 | 15.6 | 35.9 |

| | | | | | | V | VHO : | тв Сс | ntrol S | trategy | (DO | TS) | | | | | | |
|--|------------|--------------|-------|----------|--------|--------|-------|----------|----------------|----------|--------------|-------|--------|--------|---------------------------------------|------|--------|----------------|
| | | | | | | | Trea | atmen | t Outco | omes ir | 199 | 7 | | | | | | |
| | | • | | New | ss+ ca | ses | | | | | | | Retrea | atment | t cases | 3 | | |
| Countries | Registered | Not | Cured | Comp. | Def. | Failed | Dead | Trans. | Treat. | Register | Not | Cured | Comp. | Def. | Failed | Dead | Trans. | Treat. |
| | | eval. (%) | (%) | (%) | (%) | (%) | (%) | (%) | Success (%) | -ed | eval. (%) | (%) | (%) | (%) | (%) | (%) | (%) | Success (%) |
| | o | р | q | r | s | t | и | v | w | x | у | Z | aa | ab | ac | ad | ae | af |
| Australia | 126 | 23.8 | 15.9 | 50.0 | 0.8 | | 6.3 | 3.2 | 65.9 | 14 | 21.4 | 7.1 | 64.3 | | | 7.1 | | 71.4 |
| Brunei Darussalam | | | | | | | Ì | | | | | | | | | | | |
| Cambodia | 12 278 | 3.7 | 86.2 | 4.5 | 2.5 | 0.4 | 2.2 | 0.6 | 90.7 | 650 | 1.7 | 85.1 | 5.4 | 2.5 | 1.2 | 3.8 | 0.3 | 90.5 |
| China | 166 279 | 0.5 | 96.3 | | 0.6 | 1.0 | 1.3 | 0.3 | 96.3 | | | | | | | | | |
| China, Hong Kong SAR | | | | | | | | | | | | | | | | | | |
| China, Macao SAR | 325 | 0.0 | 80.6 | | 8.0 | 4.6 | 5.2 | 1.5 | 80.6 | | | | | | | | | |
| Cook Islands | 2 | 50.0 | 50.0 | | | | | | 50.0 | | | | | | | | | |
| Fiji | 46 | 0.0 | 84.8 | 2.2 | 6.5 | | 6.5 | | 87.0 | | | | | | | | | |
| Japan | | | | | | | | | | | | | | | | | | |
| Kiribati | | | | | | | | | | | | | | | | | | |
| Lao People's Democratic Republic (the) | 1 234 | 22.6 | 57.1 | 5.3 | 6.7 | 0.8 | 5.1 | 2.4 | 62.4 | 21 | 0.0 | 57.1 | 14.3 | 4.8 | 9.5 | 9.5 | 4.8 | 71.4 |
| Malaysia | | | | | | | | | | | L | | | | | | | |
| Marshall Islands (the) | | | | | | | | | | | | | | | | | | |
| Micronesia (Federated States of) | | | | | | | | | | | | | | | | | | |
| Mongolia | 705 | 0.1 | 82.4 | 3.5 | 3.4 | 2.7 | 3.8 | 4.0 | 86.0 | 77 | 0.0 | 63.6 | 14.3 | 3.9 | 6.5 | 9.1 | 2.6 | 77.9 |
| Nauru | | | | | | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | | | |
| New Zealand | | - | | | | | | | | | | | | | | | | |
| Niue | | | | | · | | | | | | | | | | | | | |
| Palau | | | | | | | | | | | | | | | | | | |
| Papua New Guinea | 69 | 0.0 | 49.3 | 43.5 | 4.3 | | 2.9 | | 92.8 | 3 | 0.0 | 33.3 | 33.3 | | | 33.3 | | 66.7 |
| Philippines (the) | 4 085 | 0.8 | 79.7 | 3.2 | 6.7 | 2.9 | 2.8 | 4.0 | 82.8 | 276 | 59.8 | 23.6 | 2.5 | 1.8 | 6.5 | 1.8 | 4.0 | 26.1 |
| Republic of Korea (the) | 7 487 | 0.0 | 79.4 | 2.2 | 3.6 | 2.4 | 1.4 | 11.0 | 81.6 | | | | | | | | | |
| Samoa | | | | | | | | | | | - | | | | | | | |
| Singapore | | | | | | | | | | | | | | | | | | |
| Solomon Islands | 113 | 1.8 | 74.3 | 17.7 | | 0.9 | 4.4 | 0.9 | 92.0 | 6 | 0.0 | 100.0 | | | | | | 100.0 |
| Tokelau | | | | | | | | | | | | | | | | | | |
| Tonga | 12 | 8.3 | 25.0 | 50.0 | | | 8.3 | 8.3 | 75.0 | | | | | | | | | |
| Tuvalu | | | | | | | | 1 | | | | | | | | | | |
| Vanuatu | | | | | | | | | | | | | | | | | | - |
| Viet Nam | 50 016 | 7.1 | 81.9 | 3.0 | 2.1 | 1.1 | 2.7 | 2.1 | 84.9 | 4 866 | 7.5 | 74.4 | 5.2 | 2.4 | 4.1 | 3.8 | 2.6 | 79.6 |
| Other Territories | | L | I. | <u> </u> | | | | <u> </u> | J | | L | | | | I | | | |
| American Samoa | | | | | | | | | | | | | | | | T | | |
| French Polynesia | 41 | 0.0 | 90.2 | 9.8 | | | | | 100.0 | 8 | 0.0 | 100.0 | | | <u> </u> | | | 100.0 |

Regional Profile - WPR cont'd.

| | | | | | | V | NHO. | TB Co | ontrol S | trategy | (DO | TS) | | | | | | |
|--|------------|---------------------|--------------|-----------|-------------|------------|-------------|---------------|--------------------------|-----------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|
| | | | | | | | Trea | atmer | t Outco | omes ir | 199 | 7 | | | | | | |
| | | | | New | ss+ ca | ses | | | | | | | Retrea | atmen | t cases | 3 | | |
| Countries | Registered | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) | Register -ed | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) |
| Guam | | | | | | | | | 1 | | | 1 | | | | | | |
| New Caledonia | | | | | | | | | | | | | | | | | | |
| Northern Mariana Islands (Commonwealth of) | | | 1 | | | | | | | | | | | | | | | |
| Wallis and Futuna Islands | - | | | | | | | | | | | 1 | | | | | | |
| Regional Total | 242 818 | 2.1 | 91.7 | 1.1 | 1.2 | 1.1 | 1.7 | 1.1 | 92.8 | 5 921 | 9.2 | 72.9 | 5.4 | 2.4 | 3.9 | 3.8 | 2.4 | 78.2 |

| | | | | | | | Ot | her S | trategy | (non-E | OTS | i) | | | | | | |
|--|------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|-----------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|
| | | | | | | | Tre | atme | nt Outc | omes i | n 199 | 97 | | | | | | |
| | | | New s | s+ cas | es (Sh | ort Co | urse) | | | | | New s | s+ cas | | | | | |
| Countries | Registered | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) | Register -ed | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) |
| | 0 | р | q | r | s | t | и | v | w | Х | У | z | aa | ab | ac | ad | ae | af |
| Australia | 100 | 31.0 | 21.0 | 32.0 | | | 11.0 | 5.0 | 53.0 | | | | | | | | | |
| Brunei Darussalam | | | | | | | | | | | | | | | | | | |
| Cambodia | | | | | | | | | | | | | | | | | | |
| China | 23 010 | 1.0 | 84.3 | | 4.2 | 7.1 | 1.6 | 1.7 | 84.3 | | | | | | | | | |
| China, Hong Kong SAR | | | | | | | | | | | | | | | | | | |
| China, Macao SAR | | | | | | | | | | | | | | | | | | |
| Cook Islands | | | | | | | | | | | | | | | | | | |
| Fiji | | | | | | | | | | | | | | | | | | |
| Japan | | | | _ | | | | | | | | | | | | | | |
| Kiribati | | | | | | | | | | | | | | | | | | |
| Lao People's Democratic Republic (the) | | | | | | | | | | | | | | | | | | |
| Malaysia | | | | | | | | | | | | | | | | | | |
| Marshall Islands (the) | | | | | | | | | | | | | | | | | | |
| Micronesia (Federated States of) | | | | | | | | | | | | | | | | | | |
| Mongolia | 466 | 9.9 | 41.0 | 15.7 | 13.1 | 7.3 | 10.1 | 3.0 | 56.7 | | | | | | | | | |
| Nauru | | | | | | | | | | | | | | | | | | |
| New Zealand | | | | | | | | | | | | | | | | | | |
| Niue | | | | | | | | | | | | | | | | | | |
| Palau | | | | | | | | | | | | | | | | | | |
| Papua New Guinea | | | | | | | | | | | | | | | | | | |
| Philippines (the) | 23 396 | 9.7 | 69.9 | 6.9 | 7.8 | 1.1 | 1.1 | 3.6 | 76.8 | | | | | | | | | |
| Republic of Korea (the) | | | | | | | | | | | | | | | | | | |
| Samoa | | | | | | | | | | | | | ļ | | 1 | | | |
| Singapore | | | | | | | | | | | | | | | | | | |
| Solomon Islands | : | | | | | | | | | | | | | | | | | |
| Tokelau | | | | | | | | | | | | | | | | | | |
| Tonga | | | | | | | | | | | | | | | | | | |
| Tuvalu | 20 | 70.0 | | | 20.0 | | 10.0 | | | | | | | | | | | |
| Vanuatu | | | | | | | | | | | | | | | | | | |
| Viet Nam | 3 631 | 1.3 | 78.3 | 8.1 | 5.1 | 2.5 | 3.1 | 1.6 | 86.4 | | | | | | | | | |
| Other Territories | | • | | | | | | | | | • | | | | | | | |
| American Samoa | | | | | | | | | | | | | | | | | | |
| French Polynesia | | | | | | | | Ī | | | | 1 | | | | | | |

Regional Profile - WPR cont'd.

| | | | | | | | O | ther S | trategy | (non-l | OOTS | 5) | | | | | | |
|--|------------|---------------------|--------------|--------------|-------------|---------------|-------------|---------------|--------------------------|-----------------|---------------------|--------------|--------------|-------------|---------------|--------|---------------|----------------|
| | | | | | | | Tre | atme | nt Outc | omes | in 19 | 97 | | | | | | |
| | | | New s | s+ cas | es (S | nort Co | urse) | | | | | New s | s+ cas | es (C | ther Re | egimer | 1) | |
| Countries | Registered | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treat. Success (%) | Register -ed | Not eval. (%) | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | (%) | Trans. (%) | Success (%) |
| | 0 | р | q | r | s | t | u | V | w | X | У | Z | aa | ab | ac | ad | ae | af |
| Guam | | | | | | | | | | | | | | | | | | |
| New Caledonia | | | | | | | | | | | | | | | | | | |
| Northern Mariana Islands (Commonwealth of) | 90 | 16.7 | 44.4 | 11.1 | | | | 27.8 | 55.6 | | | | | | | | | |
| Wallis and Futuna Islands | | | | | | | | | | | | | | | | | | |
| Regional Total | 50 713 | 5.2 | 76.6 | 4.0 | 6.0 | 4.0 | 1.6 | 2.6 | 80.6 | | | | | | | | | |

WPR - Notification rates by age and sex, 1998.

| | | | | MALE | | | | | | | F | EMALE | | | | | | | | ALL | | | | |
|--|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|-------|-------|-------|-------|-------|-------|-------|----------------|-------|
| Age groups | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | <u>≥</u> 65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | <u>></u> 65 | Total |
| Australia | 0.0 | 8.0 | 1.6 | 1.3 | 1.0 | 1.8 | 3.4 | 1.2 | 0.1 | 1.5 | 1.7 | 1.0 | 0.6 | 0.2 | 2.2 | 1.0 | 0.1 | 1.1 | 1.6 | 1.2 | 0.8 | 1.0 | 2.7 | 1.1 |
| Cambodia | 1.6 | 53.7 | 155.2 | 255.7 | 432.5 | 745.6 | 815.3 | 135.6 | 1.0 | 44.5 | 132.8 | 228.7 | 373.6 | 499.1 | 335.9 | 123.5 | 1.3 | 49.1 | 143.8 | 241.2 | 399.6 | 595.0 | 506.2 | 129.2 |
| China | 0.9 | 18.7 | 23.8 | 27.0 | 33.7 | 48.5 | 55.6 | 22.0 | 1.0 | 16.0 | 16.7 | 14.6 | 14.5 | 17.2 | 13.6 | 11.9 | 0.9 | 17.4 | 20.3 | 21.0 | 24.5 | 33.4 | 33.3 | 17.1 |
| China, Hong Kong SAR | | | | | | | | 0.0 | | | | | | | | 0.0 | | | | | | | | 0.0 |
| China, Macao SAR | 0.0 | 36.8 | 75.6 | 88.7 | 74.5 | 230.6 | 461.7 | 83.1 | 1.8 | 30.9 | 28.1 | 44.1 | 23.4 | 28.0 | 123.7 | 32.2 | 0.9 | 33.9 | 48.3 | 65.8 | 51.3 | 135.7 | 264.6 | 56.9 |
| Cook Islands | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 111.6 | 0.0 | 0.0 | 0.0 | 10.2 | 0.0 | 0.0 | 0.0 | 54.9 | 0.0 | 0.0 | 0.0 | 5.0 |
| Fiji | | 8.0 | 19.0 | 13.7 | 22.8 | 17.1 | 12.6 | 9.6 | 1.6 | 12.2 | 18.0 | 7.9 | 11.5 | 12.6 | 11.6 | 9.0 | | 10.0 | 18.5 | 10.8 | 17.2 | 14.8 | 12.1 | 9.3 |
| French Polynesia | 0.0 | 19.4 | 20.0 | 19.2 | 9.8 | 73.1 | 95.8 | 18.0 | 8.0 | 4.9 | 11.0 | 34.5 | 10.9 | 0.0 | 22.6 | 11.8 | 3.9 | 12.2 | 15.7 | 26.5 | 10.3 | 39.0 | 58.2 | 15.0 |
| Japan | 0.0 | 3.5 | 6.5 | 9.0 | 15.8 | 21.4 | 44.9 | 13.7 | 0.1 | 2.9 | 4.7 | 2.9 | 3.3 | 5.1 | 17.9 | 5.6 | 0.0 | 3.2 | 5.6 | 6.0 | 9.6 | 13.1 | 29.5 | 9.5 |
| Kiribati | 5.6 | 66.7 | 166.7 | 50.0 | 150.0 | 100.0 | 100.0 | 59.5 | 11.1 | 87.5 | 83.3 | 75.0 | 250.0 | 50.0 | 100.0 | 58.5 | 8.3 | 76.5 | 125.0 | 62.5 | 200.0 | 75.0 | 100.0 | 59.0 |
| Lao People's Democratic Republic (the) | 0.3 | 16.2 | 44.2 | 60.4 | 102.2 | 188.6 | 201.6 | 35.8 | 0.6 | 12.9 | 36.3 | 48.6 | 62.9 | 78.0 | 75.4 | 22.6 | 0.5 | 14.6 | 40.3 | 54.6 | 82.7 | 132.7 | 134.0 | 29.2 |
| Malaysia | 0.8 | 32.6 | 66.2 | 73.7 | 92.4 | 76.8 | 340.7 | 50.0 | 1.2 | 26.3 | 32.1 | 28.5 | 36.4 | 28.6 | 93.0 | 22.6 | 1.0 | 29.5 | 49.2 | 51.3 | 64.9 | 52.8 | 207.7 | 36.4 |
| Marshall Islands (the) | 0.0 | 32.8 | 0.0 | 32.8 | 49.2 | 98.4 | 0.0 | 16.4 | 0.0 | 16.4 | 73.8 | 32.8 | 0.0 | 98.4 | 0.0 | 19.7 | 0.0 | 24.6 | 36.9 | 32.8 | 24.6 | 98.4 | 0.0 | 18.0 |
| Micronesia (Federated States of) | 3.9 | 9.3 | 6.8 | 13.5 | 5.4 | 0.0 | 61.8 | 8.2 | 2.0 | 2.0 | 0.0 | 3.7 | 12.3 | 0.0 | 0.0 | 2.4 | 3.0 | 5.7 | 3.6 | 8.8 | 8.6 | 0.0 | 30.1 | 5.4 |
| Mongolia | 3.6 | 77.9 | 115.1 | 104.7 | 87.8 | 59.0 | 52.1 | 58.7 | 6.9 | 60.4 | 101.9 | 74.9 | 42.7 | 38.0 | 27.9 | 46.6 | 5.2 | 69.2 | 108.5 | 89.7 | 65.1 | 48.4 | 38.5 | 52.6 |
| New Zealand | 0.2 | 2.9 | 3.6 | 2.8 | 3.0 | 4.5 | 2.2 | 2.4 | 0.0 | 4.1 | 2.0 | 2.7 | 0.8 | 2.5 | 2.3 | 1.9 | 0.1 | 3.5 | 2.8 | 2.8 | 1.9 | 3.5 | 2.3 | 2.1 |
| Niue | | | | | | | | 0.0 | | | | | | | | 0.0 | 1 | | | | | | | 0.0 |
| Northern Mariana Islands (Commonwealth of) | 0.0 | 0.0 | 147.1 | 147.1 | 245.1 | 196.1 | 196.1 | 67.9 | 0.0 | 58.8 | 130.7 | 49.0 | 0.0 | 0.0 | 0.0 | 32.7 | 0.0 | 29.4 | 140.1 | 98.0 | 163.4 | 98.0 | 98.0 | 51.0 |
| Papua New Guinea | 1.0 | 14.6 | 14.7 | 11.9 | 14.7 | 14.0 | 6.2 | 8.8 | 1.3 | 21.2 | 14.7 | 12.2 | 12.3 | 3.0 | 1.4 | 9.3 | 1.1 | 17.8 | 14.7 | 12.0 | 13.5 | 8.5 | 3.7 | 9.0 |
| Philippines (the) | 0.0 | 2.1 | 5.2 | 8.3 | 9.3 | 12.7 | 7.2 | 3.7 | 0.0 | 1.0 | 1.9 | 2.9 | 3.9 | 4.1 | 4.2 | 1.5 | 0.0 | 1.6 | 3.6 | 5.6 | 6.7 | 8.3 | 5.6 | 2.6 |
| Republic of Korea (the) | 0.4 | 23.7 | 30.3 | 33.4 | 40.4 | 60.4 | 106.5 | 29.5 | 0.8 | 19.7 | 16.9 | 11.8 | 9.8 | 20.6 | 53.5 | 15.4 | 0.5 | 21.7 | 23.7 | 22.8 | 25.3 | 39.8 | 73.8 | 22.5 |
| Samoa | 2.9 | 4.9 | 6.9 | 0.0 | 19,8 | 25.7 | 0.0 | 5.5 | 0.0 | 5.5 | 8.7 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 1.5 | 5.2 | 7.7 | 0.0 | 9.8 | 12.5 | 0.0 | 4.0 |
| Singapore | 0.2 | 3.9 | 11.5 | 20.1 | 27.1 | 68.3 | 103.5 | 20.9 | 0.5 | 2.8 | 5.7 | 3.2 | 8.8 | 20.8 | 28.9 | 6.8 | 0.4 | 3.4 | 8.6 | 11.7 | 18.1 | 44.4 | 63.3 | 13.8 |
| Solomon Islands | 3.2 | 33.8 | 29.8 | 71.3 | 139.6 | 86.0 | 204.0 | 36.4 | 2.3 | 33.9 | 56.7 | 53.8 | 89.6 | 89.1 | 32.9 | 30.6 | 2.8 | 33.8 | 42.8 | 62.8 | 115.2 | 87.5 | 117.0 | 33.6 |
| Tonga | 0.0 | 18.5 | 43.7 | 20.4 | 68.0 | 51.0 | 204.0 | 22.0 | 4.6 | 10.2 | 0.0 | 0.0 | 0.0 | 51.0 | 204.0 | 10.2 | 2.3 | 14.6 | 21.9 | 10.2 | 34.0 | 51.0 | 204.0 | 16.2 |
| Tuvalu | 45.1 | | 422.5 | 431.5 | | 533.7 | 724.3 | 157.5 | 279.1 | | 147.0 | 220.4 | 338.0 | | 676.0 | 203.2 | 160.2 | | 287.7 | 327.1 | | | 699.3 | 180.0 |
| Vanuatu | 5.1 | 22.3 | 42.9 | 11.4 | 0.0 | 53.9 | 66.0 | 17.6 | 5.3 | 29.5 | 67.7 | 38.9 | 16.2 | 0.0 | 36.4 | 24.4 | 5.2 | 25.8 | 56.1 | 26.2 | 8.0 | 28.2 | 51.9 | 20.9 |
| Viet Nam | 0.4 | 30.3 | 98.0 | 202.0 | 283.9 | 372.4 | 476.2 | 97.3 | 0.5 | 17.4 | 42.4 | 61.6 | 99.5 | 169.7 | 203.0 | 45.2 | 0.4 | 24.0 | 70.6 | 126.6 | 183.5 | 261.0 | 313.4 | 70.7 |
| WPF | 0.7 | 17.9 | 26.4 | 32.9 | 38.7 | 54.6 | 69.3 | 25.0 | 0.9 | 14.7 | 17.3 | 16.6 | 17.2 | 22.5 | 23.8 | 13.5 | 0.8 | 16.4 | 21.9 | 25.0 | 28.3 | 38.9 | 44.6 | 19.3 |

WPR - Age and sex distribution of smear-positive TB cases in DOTS areas, 1998 (absolute numbers).

| | | | | MALE | | | | | | | F | EMALE | | | | | | | | ALL | | | | |
|--|-------|--------|--------|--------|--------|--------|--------|---------|-------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|---------|
| Age groups | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total |
| Australia | 0 | 7 | 15 | 9 | 2 | 8 | 19 | 60 | 1 | 9 | 15 | 11 | 5 | 0 | 15 | 56 | 1 | 16 | 30 | 20 | 7 | 8 | 34 | 116 |
| Cambodia | 36 | 446 | 1330 | 1477 | 1521 | 1293 | 924 | 7 027 | 23 | 367 | 1184 | 1531 | 1667 | 1359 | 691 | 6 822 | 59 | 813 | 2 514 | 3 008 | 3 188 | 2 652 | 1 615 | 13 849 |
| China | 1292 | 17736 | 26691 | 22200 | 20979 | 19444 | 18047 | 126 389 | 1441 | 14253 | 18095 | 11148 | 8405 | 6376 | 5125 | 64 843 | 2 733 | 31 989 | 44 786 | 33 348 | 29 384 | 25 820 | 23 172 | 191 232 |
| China, Macao SAR | 0 | 11 | 26 | 42 | 23 | 28 | 56 | 186 | 1 | 9 | 13 | 22 | 6 | 3 | 21 | 75 | 1 | 20 | 39 | 64 | 29 | 31 | 77 | 261 |
| Cook Islands | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Fiji | | 7 | 11 | 7 | 8 | 4 | 2 | 39 | 2 | 10 | 10 | 4 | 4 | 3 | 2 | 35 | 2 | 17 | 21 | 11 | 12 | 7 | 4 | 74 |
| French Polynesia | 0 | 4 | 4 | 3 | 1 | 5 | 4 | 21 | 3 | 1 | 2 | 5 | 1 | 0 | 1 | 13 | 3 | 5 | 6 | 8 | 2 | 5 | 5 | 34 |
| Kiribati | 1 | 6 | 10 | 2 | 3 | 2 | 1 | 25 | 2 | 7 | 5 | 3 | 5 | 1 | 1 | 24 | 3 | 13 | 15 | 5 | 8 | 3 | 2 | 49 |
| Lao People's Democratic Republic (the) | 4 | 77 | 152 | 150 | 177 | 211 | 152 | 923 | 6 | 59 | 121 | 122 | 108 | 90 | 65 | 571 | 10 | 136 | 273 | 272 | 285 | 301 | 217 | 1 494 |
| Marshall Islands (the) | 0 | 2 | 0 | 1 | 1 | 1 | 0 | 5 | 0 | 1 | 3 | 1 | 0 | 1 | 0 | 6 | 0 | 3 | 3 | 2 | 1 | 2 | 0 | 11 |
| Mongolia | 17 | 179 | 190 | 124 | 55 | 30 | 22 | 617 | 32 | 161 | 221 | 114 | 32 | 21 | 15 | 596 | 49 | 340 | 411 | 238 | 87 | 51 | 37 | 1 213 |
| Papua New Guinea | 9 | 69 | 57 | 30 | 25 | 14 | 4 | 208 | 11 | 94 | 51 | 27 | 21 | 3 | 1 | 208 | 20 | 163 | 108 | 57 | 46 | 17 | 5 | 416 |
| Philippines (the) | 2 | 157 | 292 | 356 | 256 | 206 | 81 | 1 350 | 4 | 76 | 109 | 119 | 106 | 69 | 56 | 539 | 6 | 233 | 401 | 475 | 362 | 275 | 137 | 1 889 |
| Republic of Korea (the) | 19 | 977 | 1334 | 1329 | 999 | 1074 | 1119 | 6 851 | 37 | 765 | 708 | 455 | 238 | 393 | 912 | 3 508 | 56 | 1 742 | 2 042 | 1 784 | 1 237 | 1 467 | 2 031 | 10 359 |
| Solomon Islands | 3 | 15 | 9 | 14 | 18 | 7 | 12 | 78 | 2 | 14 | 16 | 10 | 11 | 7 | 2 | 62 | 5 | 29 | 25 | 24 | 29 | 14 | 14 | 140 |
| Tonga | 0 | 2 | 3 | 1 | 2 | 1 | 2 | 11 | 1 | 1 | 0 | 0 | 0 | 1 | 2 | 5 | 1 | 3 | 3 | 1 | 2 | 2 | 4 | 16 |
| Viet Nam | 53 | 2375 | 6402 | 8477 | 5943 | 5700 | 7058 | 36 008 | 58 | 1301 | 2658 | 2980 | 2482 | 3186 | 4474 | 17 139 | 111 | 3 676 | 9 060 | 11 457 | 8 425 | 8 886 | 11 532 | 53 147 |
| WPR | 1 436 | 22 070 | 36 526 | 34 222 | 30 013 | 28 028 | 27 503 | 179 798 | 1 624 | 17 128 | 23 211 | 16 553 | 13 091 | 11 513 | 11 383 | 94 503 | 3 060 | 39 198 | 59 737 | 50 775 | 43 104 | 39 541 | 38 886 | 274 301 |
| % | 0.8 | 12.3 | 20.3 | 19.0 | 16.7 | 15.6 | 15.3 | 100 | 1.7 | 18.1 | 24.6 | 17.5 | 13.9 | 12.2 | 12.0 | 100 | 1.1 | 14.3 | 21.8 | 18.5 | 15.7 | 14.4 | 14.2 | 100 |

WPR - Age and sex distribution of smear-positive TB cases in non-DOTS areas, 1998 (absolute numbers).

| | | | | MALE | | | | | | | F | EMALE | | | | | | | | ALL | | | | |
|--|------|-------|-------|-------|-------|-------|-------|--------|------|-------|-------|-------|-------|-------|-------|--------|------|-------|-------|-------|-------|-------|--------|--------|
| Age groups | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total | 0-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | ≥65 | Total |
| Australia | 0 | 4 | 7 | 9 | 11 | 7 | 12 | 50 | 1 | 10 | 9 | 4 | 3 | 2 | 9 | 38 | 1 | 14 | 16 | 13 | 14 | 9 | 21 | 88 |
| China | 189 | 1963 | 3402 | 2888 | 2504 | 2207 | 2454 | 15 607 | 117 | 1473 | 2108 | 1524 | 994 | 746 | 603 | 7 565 | 306 | 3 436 | 5 510 | 4 412 | 3 498 | 2 953 | 3 057 | 23 172 |
| China, Hong Kong SAR | | | | | | | | | | | | | | | | | | | | | | | | |
| Japan | 2 | 306 | 597 | 724 | 1571 | 1660 | 3545 | 8 405 | 6 | 243 | 418 | 233 | 329 | 417 | 1884 | 3 530 | 8 | 549 | 1 015 | 957 | 1 900 | 2 077 | 5 429 | 11 935 |
| Lao People's Democratic Republic (the) | 0 | 0 | 0 | 4 | 0 | 2 | 1 | 7 | 1 | 1 | 3 | 1 | 0 | 0 | 1 | 7 | 1 | 1 | 3 | 5 | 0 | 2 | 2 | 14 |
| Malaysia | 31 | 670 | 1090 | 1050 | 872 | 426 | 1282 | 5 421 | 45 | 519 | 526 | 398 | 330 | 157 | 406 | 2 381 | 76 | 1 189 | 1 616 | 1 448 | 1 202 | 583 | 1 688 | 7 802 |
| Micronesia (Federated States of) | 4 | 5 | 3 | 4 | 1 | 0 | 5 | 22 | 2 | 1 | 0 | 1 | 2 | 0 | 0 | 6 | 6 | 6 | 3 | 5 | 3 | 0 | 5 | 28 |
| Mongolia | 0 | 34 | 61 | 34 | 10 | 2 | 0 | 141 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 35 | 61 | 35 | 10 | 2 | 0 | 143 |
| New Zealand | 1 | 8 | 10 | 8 | 7 | 7 | 4 | 45 | 0 | 11 | 6 | 8 | 2 | 4 | 5 | 36 | 1 | 19 | 16 | 16 | 9 | 11 | 9 | 81 |
| Niue | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Mariana Islands (Commonwealth of) | 0 | 0 | 6 | 3 | 5 | 2 | 2 | 18 | 0 | 3 | 4 | 1 | 0 | 0 | 0 | 8 | 0 | 3 | 10 | 4 | 5 | 2 | 2 | 26 |
| Papua New Guinea | | | | | | | | | | | | | | | | | | | | | | | | |
| Philippines (the) | | | | | | | | | | | | | | | | | | | | | | | | |
| Samoa | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 5 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 2 | 0 | 1 | 1 | 0 | 7 |
| Singapore | 1 | 9 | 36 | 70 | 63 | 81 | 104 | 364 | 2 | 6 | 18 | 11 | 20 | 25 | 34 | 116 | 3 | 15 | 54 | 81 | 83 | 106 | 138 | 480 |
| Tuvalu | 1 | | 3 | 2 | | 1 | 1 | 8 | 6 | | 1 | 1 | 1 | | 1 | 10 | 7 | 0 | 4 | 3 | 1 | 1 | 2 | 18 |
| Vanuatu | 2 | 4 | 5 | 1 | 0 | 2 | 2 | 16 | 2 | 5 | 9 | 4 | 1 | 0 | 1 | 22 | 4 | 9 | 14 | 5 | 1 | 2 | 3 | 38 |
| Viet Nam | 3 | 66 | 165 | 288 | 200 | 225 | 216 | 1 163 | 2 | 43 | 91 | 122 | 94 | 110 | 101 | 563 | 5 | 109 | 256 | 410 | 294 | 335 | 317 | 1 726 |
| WPR | 235 | 3 070 | 5 386 | 5 085 | 5 245 | 4 623 | 7 628 | 31 272 | 184 | 2 317 | 3 194 | 2 309 | 1 776 | 1 461 | 3 045 | 14 286 | 419 | 5 387 | 8 580 | 7 394 | 7 021 | 6 084 | 10 673 | 45 558 |
| % | 0.8 | 9.8 | 17.2 | 16.3 | 16.8 | 14.8 | 24.4 | 100 | 1.3 | 16.2 | 22.4 | 16.2 | 12.4 | 10.2 | 21.3 | 100 | 0.9 | 11.8 | 18.8 | 16.2 | 15.4 | 13.4 | 23.4 | 100 |

WPR Number of tuberculosis cases notified, 1981-1998

| Country | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
|--|---------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------------|--------------|---------------|
| Australia | 1 386 | 1 270 | 1 219 | 1 299 | 1 088 | 906 | 907 | 954 | 952 | 1 016 | 950 | 1 011 | 991 | 1 057 | 1 073 | | 1 145 | 899 |
| Brunei Darussalam | 285 | 245 | 276 | 256 | 238 | 212 | 189 | 126 | 128 | 143 | | 180 | 160 | | | | 160 | |
| Cambodia | 1 980 | 8 158 | 7 572 | 10 241 | 10 145 | 10 325 | 9 106 | 10 691 | 7 906 | 6 501 | 10 903 | 16 148 | 13 270 | 15 172 | 14 603 | 14 857 | 15 629 | 16 946 |
| China | | 98 654 | 117 557 | 151 564 | 226 899 | 265 095 | 251 600 | 304 639 | 310 607 | 375 481 | 345 000 | 320 426 | 344 218 | 363 804 | 515 764 | 469 358 | 418 904 | 457 349 |
| Cook Islands | 10 | 19 | 29 | 20 | 36 | 17 | 16 | 20 | 1 | 1 | 8 | 12 | 6 | 4 | 0 | 0 | 0 | 2 |
| Fiji | 180 | 163 | 185 | 165 | 230 | 199 | 173 | 162 | 218 | 226 | 247 | 240 | 183 | 280 | 203 | 200 | 171 | 166 |
| lance | 65 867 | 63 940 | 62 021 | 61 521 | 58 567 | 56 690 | 56 496 | 54 357 | 53 112 | 51 821 | 50 612 | 48 956 | 48 461 | 44 425 | 43 078 | 40.400 | 40.400 | 44.040 |
| Japan Kiribati | 187 | 193 | 127 | 111 | 103 | 129 | 110 | 208 | 121 | 68 | 91 | 100 | 99 | 253 | 43 076 | 42 122 327 | 42 190 32 | 44 016 276 |
| Lao People's Democratic Republic (the) | 107 | 4 706 | 4 700 | 6 528 | 4 258 | 1 514 | 3 468 | 7 279 | 2 952 | 1 826 | 1 951 | 994 | 2 093 | 1 135 | 1 227 | 1 440 | 1 923 | 2 165 |
| | | | | | | | | | | | | | | | | | | |
| Malaysia | 10 970 | 11 944 | 11 634 | 10 577 | 10 569 | 10 735 | 11 068 | 10 944 | 10 686 | 11 702 | 11 059 | 11 420 | 12 285 | 11 708 | 11 988 | 12 902 | 13 539 | 14 115 |
| Marshall Islands (the) | 7 | 12 67 | 15 73 | 12 75 | 15 66 | 37 60 | 32 98 | 11 77 | 7 68 | 207 | 26 | 52 | 61 | 470 | 445 | 56 | 400 | 49 |
| Micronesia (Federated States of) | | 07 | /3 | 75 | 00 | 60 | 98 | // | 08 | 367 | 350 | 111 | 151 | 173 | 115 | 94 | 108 | 138 |
| Mongolia | 1 094 | 1 340 | 1 512 | 1 651 | 2 992 | 2 818 | 2 432 | 2 541 | 2 237 | 1 577 | 1 611 | 1 502 | 1 433 | 1 730 | 3 240 | 2 987 | 2 987 | 2 915 |
| Nauru | 2 | 8 | 0 | 0 | 0 | 8 | 6 | 8 | 0 | 7 | | | | 4 | | | | |
| New Zealand | 448 | 437 | 415 | 404 | 359 | 320 | 296 | 295 | 303 | 348 | 335 | 317 | 274 | 352 | 307 | 356 | 328 | 367 |
| Niue | 0 | 2 | 3 | 1 | 0 | 5 | | 3 | | 0 | | 2 | 1 | 2 | 2 | 2 | 0 | 1 |
| Palau | 10 | 17 | 14 | 20 | 26 | 13 | 38 | 17 | 3 | | 6 | 4 | 25 | 41 | 19 | 5 | 15 | |
| Papua New Guinea | 2 508 | 2 742 | 2 955 | 3 505 | 3 453 | 2 877 | 2 251 | 4 261 | 3 396 | 2 497 | 3 401 | 2 540 | 7 451 | 5 335 | 8 041 | 5 097 | 7 977 | 11 291 |
| Philippines (the) | 116 821 | 104 715 | 106 300 | 151 863 | 151 028 | 153 129 | 163 740 | 183 113 | 217 272 | 317 008 | 207 371 | 236 172 | 178 134 | 180 044 | 236 475 | 276 295 | 208 301 | 159 866 |
| Republic of Korea (the) | 98 532 | 100 878 | 91 572 | 85 669 | 87 169 | 88 789 | 87 419 | 74 460 | 70 012 | 63 904 | 57 864 | 48 070 | 46 999 | 38 155 | 49 794 | 32 587 | 26 202 | 30 008 |
| Samoa | 49 | 43 | 41 | 37 | 43 | 65 | 29 | 29 | 37 | 44 | 44 | 26 | 49 | 45 | 51 | 37 | 32 | 22 |
| Singapore | 2 425 | 2 179 | 2 065 | 2 143 | 1 952 | 1 760 | 1 616 | 1 666 | 1 617 | 1 591 | 1 841 | 1 778 | 1 830 | 1 677 | 1 889 | 737 | 1 977 | 2 120 |
| Solomon Islands | 313 | 324 | 302 | 337 | 377 | 292 | 334 | 372 | 488 | 382 | 309 | 364 | 367 | 332 | 352 | 299 | 318 | 295 |
| Tokelau | 1 | 0 | 0 | 0 | 2 | 0 | 9 | 1 | 0 | 1 | 1 | 1 | | 0 | 2 | 0 | | |
| Tonga | 49 | 45 | 50 | 54 | 49 | 35 | 24 | 14 | 36 | 23 | 20 | 29 | 33 | 23 | 20 | 22 | 21 | 30 |
| Tuvalu | 18 | 12 | 23 | 9 | 32 | 27 | 22 | 24 | 26 | 23 | 30 | 30 | 28 | 19 | 36 | 22 | 21 | 18 |
| Vanuatu | 92 | 173 | 196 | 188 | 124 | 131 | 90 | 118 | 144 | 140 | 230 | 193 | 114 | 152 | 79 | 126 | 184 | 178 |
| Viet Nam | 43 506 | 51 206 | 43 185 | 43 875 | 46 941 | 47 557 | 55 505 | 52 463 | 52 270 | 50 203 | 59 784 | 56 594 | 52 994 | 51 763 | 83 608 | 74 711 | 84 964 | 87 449 |
| Other territories | | | | | | | | | | | | | | | | | | |
| American Samoa | 6 | 6 | 8 | 12 | 5 | 8 | 9 | 13 | 5 | 9 | 3 | 1 | 4 | 4 | | 0 | 6 | |
| China, Hong Kong SAR | 7 729 | 7 527 | 7 301 | 7 843 | 7 545 | 7 432 | 7 269 | 7 021 | 6 704 | 6 510 | 6 283 | 6 545 | 6 537 | 6 3 1 9 | 6 212 | 6 501 | 7 072 | 7 673 |
| China, Macao SAR | 585 | 233 | 455 | 671 | 571 | 420 | 389 | 320 | 274 | 343 | 329 | 294 | 285 | | 354 | 455 | 589 | 463 |
| French Polynesia | 66 | 65 | 78 | 80 | 78 | 85 | 80 | 63 | 73 | 59 | 49 | 83 | 82 | 89 | | 86 | 91 | 105 |
| Guam | 41 | 49 | 48 | 54 | 37 | 49 | 34 | 41 | 75 | • | | 60 | 70 | 94 | | 00 | 31 | 100 |
| New Caledonia | 128 | 120 | 171 | 144 | 104 | 98 | 74 | 111 | 128 | 143 | 140 | 140 | 149 | 132 | 114 | 205 | | |
| Northern Mariana Islands (Commonwealth of) | 26 | 75 | 74 | 58 | 64 | 16 | 56 | 27 | 28 | 28 | | 67 | | 46 | 48 | £4 | 93 | 0.7 |
| Wallis and Futuna Islands | 24 | 5 | 17 | 14 | 14 | 10 | 34 | 1 | 30 | 20 | 22 | 4 | 11 | 11 | 40 6 | 51 8 | 14 | 97 |
| Total | 355 345 | 461 572 | 462 193 | 541 001 | 615 179 | 651 853 | 655 019 | 716 450 | 741 916 | 893 992 | 760 870 | 754 466 | 718 848 | 724 380 | 978 700 | 941 923 | 834 972 | 839 019 |
| No. of countries reporting | 33 | 36 | 36 | 36 | 36 | 35 | 35 | 36 | 35 | 32 | 31 | 35 | 33 | 33 | 29 | 31 | 30 | 28 |
| % of countries reporting | 92 | 100 | 100 | 100 | 100 | 97 | 97 | 100 | 97 | 89 | 86 | 97 | 92 | 92 | 81 | 86 | 83 | 78 |

WPR - Case notification rates (per 100 000 population), 1981-1998

| Country | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Australia | 9.4 | 8.5 | 8.0 | 8.4 | 7.0 | 5.7 | 5.6 | 5.8 | 5.7 | 6.0 | 5.5 | 5.8 | 5.6 | 6.0 | 6.0 | | 6.2 | 4.9 |
| Brunei Darussalam | 143.1 | 119.5 | 130.9 | 118.1 | 106.7 | 92.4 | 80.1 | 51.9 | 51.2 | 55.6 | | 66.2 | 57.2 | | | | 51.9 | |
| Cambodia | 30.2 | 121.8 | 109.7 | 143.4 | 137.4 | 135.4 | 115.6 | 131.5 | 94.3 | 75.1 | 122.2 | 175.7 | 140.3 | 156.0 | 146.3 | 145.2 | 149.2 | 158.1 |
| China | | 9.6 | 11.3 | 14.4 | 21.2 | 24.4 | 22.8 | 27.2 | 27.3 | 32.5 | 29.5 | 27.1 | 28.8 | 30.1 | 42.3 | 38.1 | 33.7 | 36.4 |
| Cook Islands | 55.6 | 111.8 | 170.6 | 117.6 | 211.8 | 100.0 | 94.1 | 111.1 | 5.6 | 5.6 | 42.1 | 63.2 | 31.6 | 21.1 | | | | 10.0 |
| Fiji | 27.8 | 24.6 | 27.4 | 24.0 | 32.9 | 28.1 | 24.3 | 22.6 | 30.2 | 31.1 | 33.7 | 32.4 | 24.4 | 36.9 | 26.4 | 25.7 | 21.7 | 20.9 |
| Japan | 56.0 | 53.9 | 52.0 | 51.2 | 48.5 | 46.7 | 46.3 | 44.3 | 43.2 | 41.9 | 40.8 | 39.4 | 38.8 | 35.5 | 34.3 | 33.5 | 33.5 | 34.9 |
| Kiribati | 301.6 | 306.3 | 198.4 | 168.2 | 153.7 | 189.7 | 159.4 | 297.1 | 170.4 | 94.4 | 124.7 | 133.3 | 130.3 | 328.6 | | 408.8 | 39.5 | 332.5 |
| Lao People's Democratic Republic (the) | | 141.2 | 137.7 | 186.5 | 118.5 | 41.0 | 91.2 | 185.9 | 73.2 | 44.0 | 45.7 | 22.6 | 46.3 | 24.4 | 25.7 | 29.4 | 38.2 | 41.9 |
| Malaysia | 77.7 | 82.5 | 78.2 | 69.3 | 67.4 | 66.7 | 67.0 | 64.5 | 61.4 | 65.6 | 60.4 | 60.9 | 64.0 | 59.6 | 59.6 | 62.8 | 64.5 | 65.9 |
| Marshall Islands (the) | 19.4 | 32.4 | 39.5 | 30.8 | 37.5 | 90.2 | 76.2 | 25.0 | 15.6 | | 54.2 | 106.1 | 119.6 | | | 98.2 | | 80.3 |
| Micronesia (Federated States of) | | 19.9 | 21.2 | 21.2 | 18.2 | 16.1 | 25.6 | 19.5 | 16.8 | 88.0 | 81.6 | 25.2 | 33.4 | 37.2 | 24.1 | 19.2 | 21.5 | 26.7 |
| Mongolia | 64.0 | 76.4 | 83.9 | 89.1 | 156.7 | 143.2 | 119.7 | 121.3 | 103.7 | 71.2 | 71.0 | 64.8 | 60.6 | 71.8 | 132.2 | 119.7 | 117.7 | 113.0 |
| Nauru | 25.0 | 100.0 | | | | 88.9 | 66.7 | 88.9 | | 70.0 | | | | 40.0 | | | | |
| New Zealand | 14.3 | 13.8 | 13.0 | 12.5 | 11.1 | 9.8 | 9.0 | 8.9 | 9.1 | 10.4 | 9.8 | 9.1 | 7.7 | 9.7 | 8.4 | 9.6 | 8.7 | 9.7 |
| Niue | | 66.7 | 100.0 | 33.3 | | 250.0 | | 150.0 | | | | 100.0 | 50.0 | 100.0 | 100.0 | 100.0 | | 50.0 |
| Palau | 83.3 | 130.8 | 107.7 | 153.8 | 185.7 | 92.9 | 271.4 | 113.3 | 20.0 | | 40.0 | 25.0 | 156.3 | 256.3 | 111.8 | 29.4 | 88.2 | |
| Papua New Guinea | 79.4 | 85.0 | 89.6 | 104.0 | 100.3 | 81.8 | 62.6 | 116.0 | 90.4 | 65.0 | 86.6 | 63.2 | 181.3 | 126.9 | 186.9 | 115.9 | 177.3 | 245.5 |
| Philippines (the) | 235.9 | 206.1 | 204.0 | 284.3 | 276.3 | 274.1 | 287.2 | 314.8 | 365.9 | 522.4 | 333.9 | 371.3 | 273.3 | 269.6 | 346.0 | 395.3 | 291.6 | 219.2 |
| Republic of Korea (the) | 254.7 | 257.1 | 230.1 | 212.5 | 213.6 | 215.2 | 209.8 | 177.0 | 164.9 | 149.1 | 133.7 | 110.0 | 106.5 | 85.7 | 110.8 | 71.9 | 57.3 | 65.1 |
| Samoa | 31.5 | 27.6 | 26.2 | 23.6 | 27.4 | 41.3 | 18.4 | 18.3 | 23.3 | 27.5 | 27.3 | 16.0 | 29.9 | 27.2 | 30.4 | 21.8 | 18.6 | 12.6 |
| Singapore | 98.5 | 86.5 | 80.0 | 81.0 | 72.1 | 63.5 | 57.1 | 57.6 | 54.7 | 52.7 | 59.8 | 56.6 | 57.1 | 51.4 | 56.9 | 21.8 | 57.7 | 61.0 |
| Solomon Islands | 133.4 | 133.3 | 120.0 | 129.3 | 139.7 | 104.4 | 115.4 | 124.1 | 157.3 | 119.0 | 93.0 | 106.0 | 103.3 | 90.5 | 92.8 | 76.4 | 78.7 | 70.7 |
| Tokelau | 50.0 | | | | 100.0 | | 450.0 | 50.0 | | 50.0 | 50.0 | 50.0 | | | 100.0 | | | |
| Tonga | 53.3 | 49.5 | 54.9 | 59.3 | 53.8 | 38.0 | 25.8 | 14.9 | 37.9 | 24.0 | 20.6 | 29.9 | 33.7 | 23.5 | 20.4 | 22.4 | 21.2 | 30.3 |
| Tuvalu | 225.0 | 150,0 | 287.5 | 112.5 | 400.0 | 337.5 | 275.0 | 300.0 | 288.9 | 255.6 | 333.3 | 333.3 | 311.1 | 211.1 | 360.0 | | | 180.0 |
| Vanuatu | 76.5 | 140.4 | 155.3 | 145.5 | 93.7 | 96.6 | 64.8 | 82.9 | 98.7 | 93.7 | 150.2 | 123.0 | 70.9 | 92.2 | 46.8 | 72.8 | 103.8 | 98.1 |
| Viet Nam | 79.2 | 91.2 | 75.3 | 74.9 | 78.4 | 77.7 | 88.8 | 82.1 | 80.1 | 75.3 | 87.7 | 81.3 | 74.6 | 71.4 | 113.2 | 99.4 | 111.2 | 112.7 |
| Other territories | | | | | | | | | | | | | | | | | | |
| American Samoa | 18.2 | 17.1 | 22.2 | 31.6 | 12.8 | 19.5 | 21.4 | 29.5 | 11.1 | 19.1 | 6.3 | 2.0 | 7.8 | 7.5 | | | 10.3 | |
| China, Hong Kong SAR | 150.2 | 143.7 | 137.2 | 145.4 | 138.3 | 134.9 | 130.9 | 125.5 | 118.8 | 114.1 | 108.7 | 111.4 | 109.3 | 103.7 | 99.8 | 102.2 | 108.6 | 115.2 |
| China, Macao SAR | 226.1 | 86.8 | 162.4 | 229.0 | 186.5 | 131.5 | 116.9 | 92.5 | 76.3 | 92.2 | 85.5 | 74.1 | 69.9 | | 82.4 | 103.4 | 130.9 | 100.9 |
| French Polynesia | 42.4 | 40.6 | 47.3 | 47.2 | 44.8 | 47.6 | 43.7 | 33.6 | 38.1 | 30.1 | 24.5 | 40.8 | 39.5 | 42.1 | | 39.2 | 40.8 | 46.2 |
| Guam | 37.6 | 43.9 | 42.1 | 46.2 | 31.0 | 40.1 | 27.2 | 32.1 | 57.3 | | | 42.7 | 48.6 | 63.7 | | | | |
| New Caledonia | 88.2 | 81.4 | 114.0 | 94.5 | 67.2 | 62.4 | 46.5 | 68.8 | 78.0 | 85.4 | 81.5 | 79.1 | 81.7 | 70.3 | 59.1 | 103.7 | | |
| Northern Mariana Islands (Commonwealth of) | 162.5 | 468.8 | 462.5 | 341.2 | 336.8 | 69.6 | 200.0 | 79.4 | 71.8 | 65.1 | | 142.6 | | 95.8 | 100.0 | 104.1 | 189.8 | 190.2 |
| Wallis and Futuna Islands | 218.2 | 41.7 | 141.7 | 116.7 | 116.7 | | 261.5 | 7.7 | 230.8 | | 157.1 | 28.6 | 78.6 | 78.6 | 42.9 | 53.3 | 93.3 | |
| WPR | 26.7 | 34.2 | 33.8 | 39.0 | 43.7 | 45.6 | 45.1 | 48.6 | 49.6 | 58.9 | 49.5 | 48.5 | 45.6 | 45.5 | 60.8 | 57.9 | 50.8 | 50.6 |

WPR - New smear-positive cases

| • | | | Number o | of cases | | | | Rate | (per 100 000 |) population | n) | |
|--|---------|---------|----------|----------|---------|---------|-------|-------|--------------|--------------|-------|-------|
| Country | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
| Australia | 557 | | | | 226 | 203 | 3.2 | | | | 1.2 | 1.1 |
| Brunei Darussalam | 68 | | | | | | 24.3 | | | | | |
| Cambodia | | 11 058 | 11 101 | 12 065 | 12 686 | 13 865 | | 113.7 | 111.2 | 117.9 | 121.1 | 129.4 |
| China | 84 898 | 104 729 | 134 488 | 168 270 | 188 530 | 214 462 | 7.1 | 8.7 | 11.0 | 13.7 | 15.2 | 17.1 |
| Cook Islands | 4 | 1 | | | | 1 | 21.1 | 5.3 | | | | 5.0 |
| Fiji | 58 | 60 | 68 | 69 | 66 | 74 | 7.7 | 7.9 | 8.9 | 8.9 | 8.4 | 9.3 |
| Japan | 17 890 | 16 770 | 14 367 | 12 867 | 13 571 | 11 935 | 14.3 | 13.4 | 11.5 | 10.2 | 10.8 | 9.5 |
| Kiribati | 99 | 184 | | 29 | 11 | 50 | 130.3 | 239.0 | | 36.3 | 13.6 | 60.2 |
| Lao People's Democratic Republic (the) | | | 726 | 886 | 1 234 | 1 508 | | | 15.2 | 18.1 | 24.5 | 29.2 |
| Malaysia | 6 954 | 6 861 | 6 688 | 7 271 | 7 596 | 7 802 | 36.2 | 34.9 | 33.3 | 35.4 | 36.2 | 36.4 |
| Marshall Islands (the) | 12 | | | 17 | | 11 | 23.5 | | | 29.8 | | 18.0 |
| Micronesia (Federated States of) | | | 7 | 10 | 11 | 28 | | | 1.5 | 2.0 | 2.2 | 5.4 |
| Mongolia | 86 | 145 | 622 | 1 171 | 1 171 | 1 356 | 3.6 | 6.0 | 25.4 | 46.9 | 46.2 | 52.6 |
| Nauru | | 2 | | | | | | 20.0 | | | | |
| New Zealand | 91 | 61 | 47 | 76 | 57 | 81 | 2.6 | 1.7 | 1.3 | 2.0 | 1.5 | 2.1 |
| Niue | | | 1 | 1 | | | | | 50.0 | 50.0 | | |
| Palau | 8 | 11 | 9 | 4 | 7 | | 50.0 | 68.8 | 52.9 | 23.5 | 41.2 | |
| Papua New Guinea | | | 1 652 | 652 | 1 195 | 2 107 | | | 38.4 | 14.8 | 26.6 | 45.8 |
| Philippines (the) | 92 279 | 87 401 | 94 768 | 86 695 | 83 353 | 71 663 | 141.6 | 130.9 | 138.6 | 124.0 | 116.7 | 98.2 |
| Republic of Korea (the) | 16 630 | 13 266 | 11 754 | 11 420 | 9 957 | 10 359 | 37.7 | 29.8 | 26.1 | 25.2 | 21.8 | 22.5 |
| Samoa | 21 | 18 | 15 | 10 | 14 | 7 | 12.8 | 10.9 | 8.9 | 5.9 | 8.1 | 4.0 |
| Singapore | 513 | 861 | 455 | 208 | 432 | 480 | 16.0 | 26.4 | 13.7 | 6.2 | 12.6 | 13.8 |
| Solomon Islands | 155 | 114 | 109 | 90 | 113 | 140 | 43.6 | 31.1 | 28.7 | 23.0 | 28.0 | 33.6 |
| Tokelau | | | 1 | | | | | | 50.0 | | | |
| Tonga | 16 | 17 | 9 | 16 | 12 | 16 | 16.3 | 17.3 | 9.2 | 16.3 | 12.1 | 16.2 |
| Tuvalu | 2 | 1 | 6 | | | | 22.2 | 11.1 | 60.0 | | | |
| Vanuatu | | 62 | 30 | 50 | 66 | 38 | | 37.6 | 17.8 | 28.9 | 37.2 | 20.9 |
| Viet Nam | | | 37 550 | 48 911 | 53 647 | 54 873 | | | 50.8 | 65.1 | 70.2 | 70.7 |
| Other territories | | | | | | | | | | | | |
| American Samoa | 1 | 4 | | | 6 | | 2.0 | 7.5 | | | 10.3 | |
| China, Hong Kong SAR | 2 429 | | | 2 116 | 1 536 | | 40.6 | | | 33.3 | 23.6 | |
| China, Macao SAR | 108 | | 141 | 204 | 304 | 226 | 26.5 | | 32.8 | 46.4 | 67.6 | 49.2 |
| French Polynesia | 39 | 38 | | 37 | 41 | 34 | 18.8 | 18.0 | | 16.9 | 18.4 | 15.0 |
| Guam | | 40 | | | | | | 27.1 | | | | |
| New Caledonia | | 42 | 26 | 26 | | | | 22.4 | 13.5 | 13.1 | | |
| Northern Mariana Islands (Commonwealth of) | | | 14 | 26 | 21 | 26 | | | 29.2 | 53.1 | 42.9 | 51.0 |
| Wallis and Futuna Islands | | | 3 | 3 | 1 | | - | | 21.4 | 20.0 | 6.7 | |
| Total | 222 918 | 241 746 | 314 657 | 353 200 | 375 864 | 391 345 | 14.2 | 15.2 | 19.5 | 21.7 | 22.9 | 23.6 |

Notes

China, Hong Kong SAR The distribution of notifications by site of disease and by microscopy reported to WHO are estimates based on a sample of clinics, so only total number of notifications used.

Fiji Treatment outcomes are from 2/4 quarters only.

Kiribati DOTS started in 4th quarter 1997, so treatment outcomes for DOTS areas are not yet available.

Marshall Islands DOTS started in 1998, so treatment outcomes for DOTS areas are not yet available.

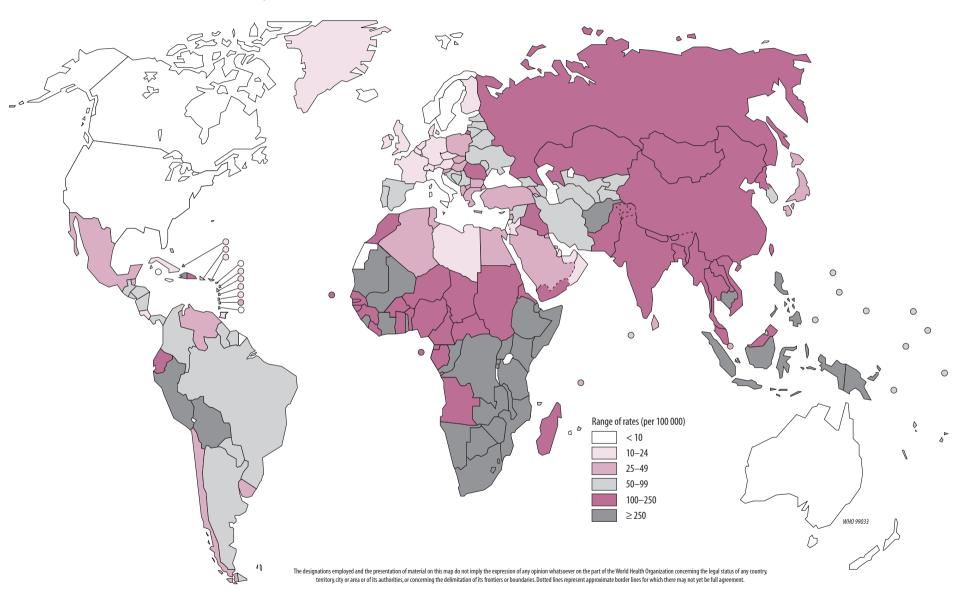
Niue No report submitted; minimal official notification data obtained by other means.

Philippines (the) Extra-pulmonary cases are not reported to the NTP. Relapse data include relapses and failures.

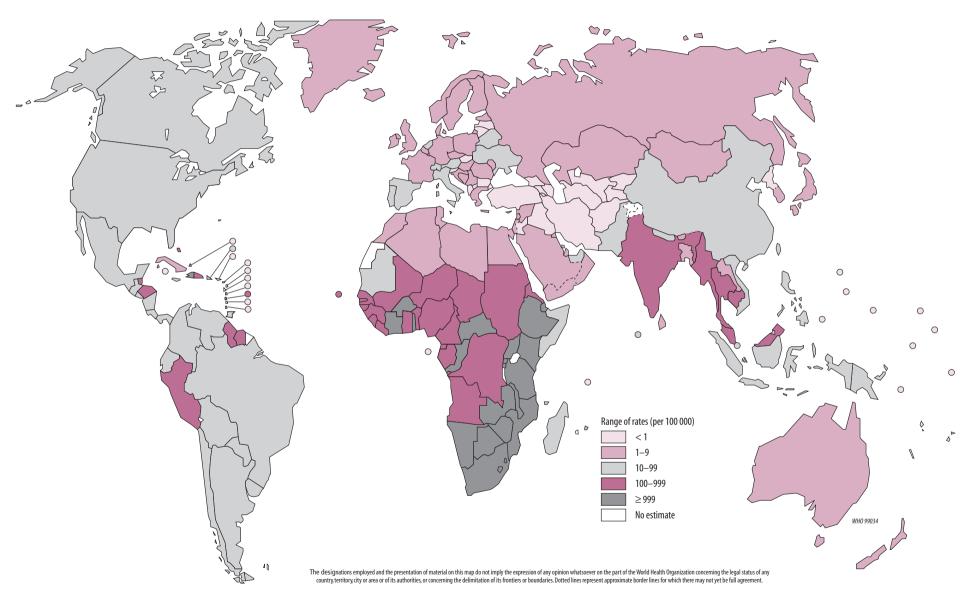
World maps

1. Estimated TB incidence rates, 1997
2. Estimated TB/HIV co-infection rates, 1997
3. Implementation of DOTS, 1998
4. Tuberculosis notification rates, 1998

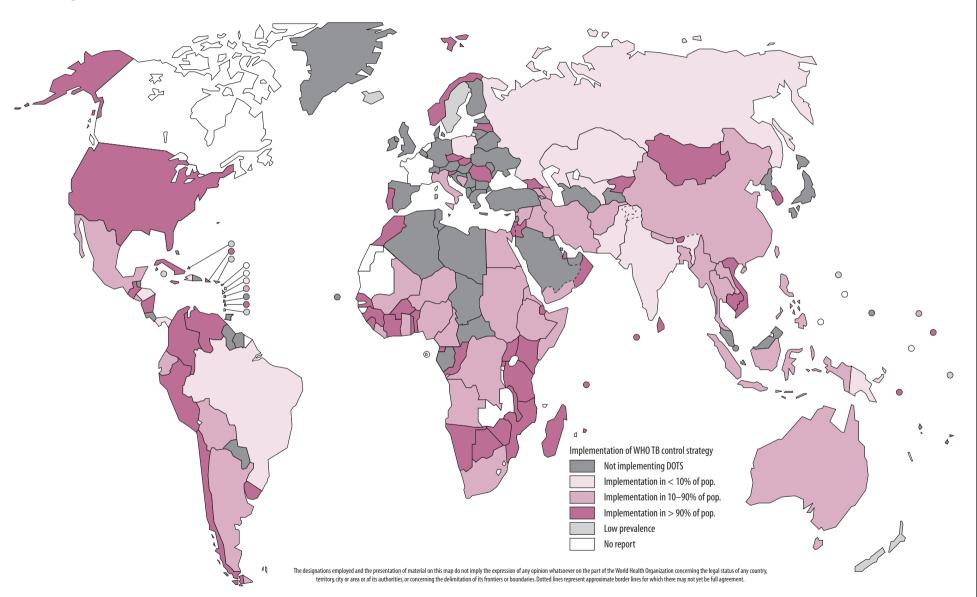
1. Estimated TB incidence rates, 1997



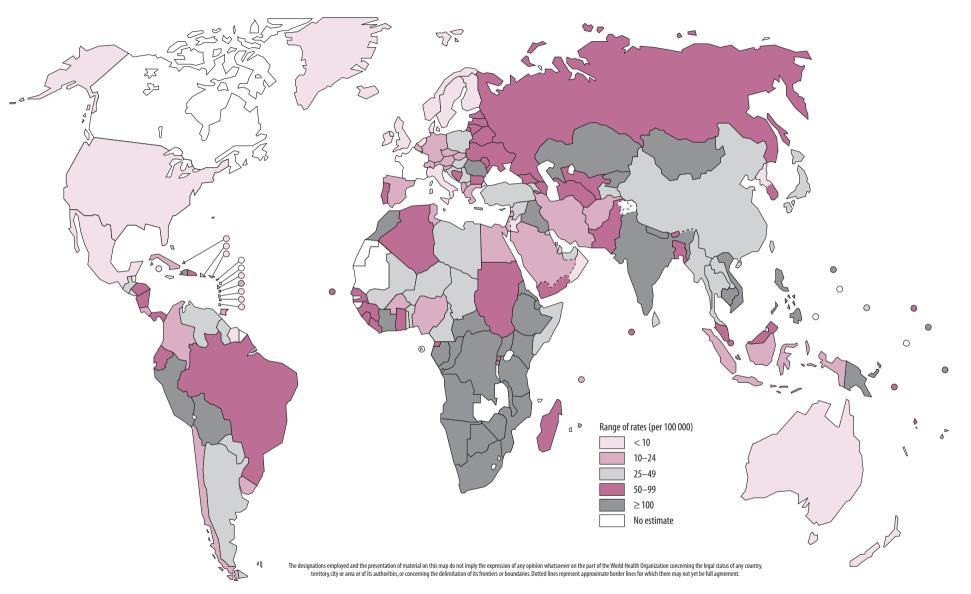
2. Estimated TB/HIV co-infection rates, 1997



3. Implementation of DOTS, 1998



4. Tuberculosis notification rates, 1998



ANNEX 5

Comparison of cases notified and registered for treatment in 1997

Comparison of ss+ notifications in 1997 (as reported in 1998) and ss+ cases registered for treatment in 1997 (as reported in 1999)

| | No. cases notified | No. cases registered | % registered | | No. cases notified | No, cases registered | % registered |
|--|-----------------------|---|-----------------|--|-----------------------|-------------------------|-----------------|
| Afghanistan | 618 | 2001 | 324 | Liberia | notified | registered 1139 | registered |
| Albania | 241 | | | Libyan Arab Jamahiriya (the) | | | |
| Algeria American Samoa | 7740 6 | 6860 | 89 | Lithuania Luxembourg | 1200 31 | 943 31 | 79 100 |
| Andorra | 17 | | | Madagascar | | 9229 | |
| Angola Anguilla | 8201 0 | 8246 | 101 | Malawi Malaysia | 7587 7596 | 7587 | 100 |
| Antigua and Barbuda | | | | Maldives | 94 | 94 | 100 |
| Argentina | 5307 | 5234 | 99 | Mail | 3178 | 812 | 26 |
| Armenia Australia | 400 226 | 359 226 | 90 100 | Malta Marshall Islands (the) | 3 | 3 | 100 |
| Austria | 370 | | | Mauritania | 2519 | | |
| Azerbaljan Bahamas (the) | 981 57 | 392 48 | 40 84 | Mauritius Mexico | 15440 | 17537 | 114 |
| Bahrain | 110 | 40 | | Micronesia (Federated States of) | 11 | 17 337 | - |
| Bangladesh | 33117 | 33784 | 102 | Monaco | 0 | | |
| Barbados Belarus | 5 2273 | 6 | 120 | Mongolia Montserrat | 1171 | 1171 | 100 |
| Belgium | 434 | | | Morocco | 14134 | 14134 | 100 |
| Belize Benin | 48 1939 | 1854 | 96 | Mozambique Myanmar | 11116 9695 | 11158 9232 | 100 95 |
| Bermuda | 1555 | 1004 | | Namibia | 2674 | 3223 | 121 |
| Shutan | 284 | 284 | 100 | Nauru | | | |
| Bolivia Bosnia and Herzegovina | 6458 803 | 6458 813 | 100 101 | Nepal Netherlands (the) | 11323 312 | 10622 308 | 94 99 |
| Botswana | 2442 | 2635 | 108 | Netherlands Antilles | | | |
| Brazil British Virgin Islands | 43490 0 | 43490 | 100 | New Caledonia New Zealand | 57 | | : |
| Brunel Darussalam | 0 | | | Nicaragua | 1670 | 1655 | 99 |
| Bulgaria | 1037 | | • | Niger (the) | 2779 | 734 | 26 |
| Burkina Faso Burundi | 1126 2022 | 2189 | 108 | Nigeria Niue | 11235 0 | 11253 | 100 |
| Cambodia | 12686 | 12278 | 97 | Northern Mariana Islands (Commonwealth of) | 21 | 90 | 429 |
| Cameroon Canada | 3548 | | | Norway Oman | 100 120 | 9 120 | 9 100 |
| Cape Verde | 103 | | | Pakistan | | 2805 | - |
| Cayman Islands | 0 | | - | Palau | 7 | | |
| Central African Republic (the) Chad | 2267 | | | Panama Papua New Guinea | 592 1195 | 669 69 | 113 6 |
| Chile | 1524 | 1640 | 108 | Paraguay | 895 | | - |
| China China, Hong Kong SAR | 188530 1536 | 189289 | 100 | Peru Philippines (the) | 27498 83353 | 24428 27481 | 89 33 |
| China, Macao SAR | 304 | 325 | 107 | Poland | 3497 | 27401 | |
| Colombia | 6090 | | • | Portugal | 1628 | 1876 | 115 100 |
| Compros (the) | 1984 | 1984 | 100 | Puerto Rico Qatar | 126 39 | 126 39 | 100 |
| Cook Islands | 0 | 2 | | Republic of Korea (the) | 9957 | 7487 | 75 |
| Costa Rica Côte d'Ivoire | 578 9093 | 8083 | 89 | Republic of Moldova (the) Romania | 397 11666 | 8872 | 76 |
| Croatia | 1073 | *************************************** | | Russian Federation (the) | 42094 | 661 | 2 |
| Cuba | 765 19 | 765 | 100 | Rwanda Saint Kitts and Nevis | 2820 | 2922 | 104 |
| Cyprus Czech Republic (the) | 481 | 451 | 94 | Saint Lucia | 11 | 12 | 109 |
| Democratic People's Republic of Korea (the) | 3980 | 302 | 8 | Saint Vincent and the Granadines | | 7 | - |
| Democratic Republic of the Congo (the) Denmark | 25183 114 | 25183 | 100 | Samoa San Marino | 14 | 1 | 100 |
| Djibouti | 1905 | 1904 | 100 | Sao Tome and Principe | | | |
| Dominica Dominican Republic (the) | 5 2682 | 6 2682 | 120 100 | Saudi Arabia Senegal | 1568 5340 | 1431 5340 | 91 100 |
| Ecuador | 7329 | 5470 | 75 | Seychelles | 11 | 11 | 100 |
| Egypt | 5469 | 3467 | 63 | Sierra Leone | 2296 | 1958 | 85 |
| El Salvador Equatorial Guinea | 882 226 | 771 226 | 87 100 | Singapore Slovakia | 432 283 | 283 | 100 |
| Eritrea | 109 | 128 | 117 | Slovenia | 156 | 156 | 100 |
| Estonia Ethiopia | 269 15957 | 11592 | 73 | Solomon Islands Somalia | 113 3097 | 113 2779 | 100 90 |
| Fiji | 66 | 46 | 70 | South Africa | 55000 | 55000 | 100 |
| Finland | 186 | | | Spain | 6970 | | • |
| France French Polynesia | 2430 41 | 41 | 100 | Sri Lanka St. Helena | 3506 | 3617 | 103 |
| Gabon | 577 | 577 | 100 | Sudan (the) | 6095 | 3600 | 59 |
| Gambia (the) Georgia | 820 595 | 595 | 100 | Suriname Swaziland | 27 | | |
| Germany | 3346 | 353 | | Sweden | 94 | | : |
| Ghane | 7287 | 5596 | 77 | Switzerland | 144 | | |
| Greece Grenada | 285 2 | 4 | 200 | Syrian Arab Republic (the) Tailkistan | 1402 373 | 1421 373 | 101 100 |
| Guam | | | | Thailand | 13214 | 3697 | 28 |
| Guatemala Guinea | 2224 2981 | 3164 2981 | 142 100 | The former Yugoslav Republic of Macedonia Togo | 192 0 | 931 | |
| Guinea-Bissau | 2961 | 2301 | | Tokelau | U | 531 | : |
| Guyana | 105 | 363 | 346 | Tonga | 12 | 12 | 100 |
| Haiti Honduras | 5497 1579 | 5497 1928 | 100 122 | Trinidad and Tobago Tunisia | 52 | 52 1099 | 100 |
| Hungary | 702 | 702 | 100 | Turkey | 3439 | | |
| Iceland India | 4 273519 | 4 293483 | 100 107 | Turkmenistan Turks and Calcos Islands | 764 | 557 | 73 |
| India Indonesia | 2/3519 19492 | 21355 | 110 | Turks and Calcos Islands Tuvalu | | 20 | : |
| Iran (Islamic Republic of) | 5253 | 4751 | 90 | Uganda | 17268 | 17500 | 101 |
| Iraq Ireland | 8001 123 | 8164 | 102 | Ukraine United Arab Emirates (the) | 9533 | | |
| Israel | 207 | | | United Kingdom of Great Britain and N. Ireland (the) | 844 | | |
| Italy Jemaica | 1903 71 | 222 71 | 12 100 | United Republic of Tanzania (the) United States of America (the) | 22010 6882 | 22064 6925 | 100 101 |
| Jamaica Japan | 71 13571 | 11 | 100 | United States of America (the) United States Virgin Islands | 6882 | 6925 | 101 |
| Jordan | 126 | 136 | 108 | Uruguay | 423 | 422 | 100 |
| Kazakhstan Kenya | 4332 19040 | 4332 19040 | 100 100 | Uzbekistan Vanyatu | 3388 66 | | |
| Kiribati | 11 | 130-0 | - | Venezuela | 3234 | 3194 | 99 |
| 111110011 | 201 | | | Viet Nam | 53647 | 53647 | 100 |
| Kuwait | | | | | | | |
| Kuwait Kyrgyzstan | 1536 | 82 1234 | 5 100 | Wallis and Futuna Islands West Bank and Gaza | 1 | | |
| Kuwait Kyrgyzstan Lao Peopla's Democratic Republic (the) Latvia | 1536 1234 634 | 1234 580 | 100 91 | West Bank and Gaza Yemen | 4717 | 4365 | 93 |
| Kuwait Kyrgyzstan Lao People's Democratic Republic (the) | 1536 1234 | 1234 | 100 | West Bank and Gaza | | 4365 | _ |

ANNEX 6

Changes in treatment success and DOTS detection rate 1995–98

Change in treatment success and DOTS detection rate as reported to WHO 1995-1998.

| | | | t success | | | | etection | |
|---|----------|----------------|-----------|--------------------|--------------|--------------|---------------|--------------|
| | 1995 | 1996 | 1997 | 1998 | 1995 | 1996 | 1997 | 1998 |
| Afghanistan | - | - | - | 45 | | - | 1.9 | 5.4 |
| Albania Algeria | | - | 86 | | - | - | 131.3 | - |
| | | | | | • | | | |
| American Samoa Andorra | - | 100 | | - | - | - | 26.1 212.5 | 12.2 |
| Angola | - | - | - | 15 | - | - | 70.0 | 45.0 |
| Anguilla | - | - | | - | | - | | |
| Antigua and Barbuda | - | - | | | - | - | - | |
| Argentina | - | - | - | • | - | - | 3.9 | 6.4 |
| Armenia | - | 83 | 77 | 82 | 10.7 | 26.4 | 49.3 | 53.4 |
| Australia | - | - | - | 66 | • | - | - | 17.5 |
| Austria | - | - | - | - | - | - | - | - |
| Azerbaljan | - | - | 86 | 87 | 4.6 | 8.9 | 7.2 | 8.1 |
| Bahamas (the) | | - | - | | | - | - | • |
| 3ahrain | | | | | | | | - |
| Bangladesh | 73 | 71 | 72 | 78 | 7.0 | 14.8 | 19.2 | 24.2 |
| Barbados Belarus | | - | - | | - | - | - | - |
| | | _ | | | _ | _ | _ | |
| Belgium Belize | | - 52 | - | - | - | 43.5 | 102.1 | - |
| Benin | 76 | 73 | 72 | 73 | 35.1 | 34.7 | 35.0 | 34.9 |
| Sermuda | | | - | - | | - | _ | |
| Bhutan | 71 | 97 | 96 | 85 | 31.2 | 25.6 | 22.9 | 21.2 |
| Bolivía | 66 | 62 | 71 | 77 | 41.5 | 80.4 | 73.0 | 74.5 |
| Bosnia and Herzegovina | | - | - | 93 | - | - | - | 33.3 |
| Botswana | 72 | 67 | 70 | 70 | 65.3 | 80.2 | 80.0 | 90.8 |
| Brazil | • | - | - | | - | - | - | 4.0 |
| British Virgin Islands | - | - | - | - | - | - | - | - |
| Brunei Darussalam | - | - | - | - | - | - | | - |
| Bulgaria | - | | • | - | | | | |
| Burkina Faso | - | 25 | 29 | 61 67 | 11.1 18.8 | 20.1 25.0 | 15.9 32.1 | 18.3 21.4 |
| Burundi Cambodia | 44 84 | 45 91 | 94 | 91 | 46.0 | 39.0 | 50.1 | 53.6 |
| | | | | 80 | _ | 4.3 | _ | 12.0 |
| Cameroon Canada | - | - | - | - | - | - | | - |
| Cape Verde | - | | - | | - | 40.9 | 35.2 | - |
| Cayman Islands | | _ | _ | | - | | _ | - |
| Central African Republic (the) | | 37 | - | - | - | 65.2 | 72.7 | - |
| Chad | 63 | 47 | - | - | 35.4 | 14.9 | - | - |
| Chile | 83 | 79 | 80 | 77 | 87.9 | 79.0 | 80.2 | 81.8 |
| China | 94 | 96 | 96 | 96 | 14.6 | 22.0 | 23.5 | 30.1 |
| China, Hong Kong SAR | - | - | - | - | • | - | - | - |
| China, Macao SAR | 75 | - | - | 81 | 33.1 | 46.8 | 68.0 | 49.6 |
| Colombia | - | 90 | • | - | 60.0 | 61.3 | - | 75.4 |
| Comoros (the) | 94 | 90 | - | - | 0.00 | 01.3 | - | - |
| Congo (the) | 69 | - | - | - | 70.0 | - | - | 65.3 |
| Cook Islands Costa Rica | - | - | - | 50 | - | - | - | 12.5 |
| Costa Rica | | | | | | | | |
| Côte d'Ivoire Croatia | 17 | 68 | 56 | 61 | 52.1 | 55.1 | 55.0 | 58.6 |
| Cuba | 86 | 90 | 92 | 90 | 96.0 | 95.6 | 87.2 | 84.4 |
| | | - | _ | _ | | _ | _ | 30.0 |
| Cyprus Czech Republic (the) | - 73 | 60 | 66 | - 69 | 53.5 | 64.5 | 53.0 | 60.2 |
| Democratic People's Republic of Korea (the) | - | - | - | - | - | - | - | - |
| Democratic Republic of the Congo (the) | 71 | 80 | 48 | 64 | 37.4 | 46.0 | 46.8 | 60.7 |
| Denmark | - | - | - | | - | - | - | - |
| Djibouti | - | 75 | 77 | 76 | - | 87.2 | 90.0 | 79.4 |
| Dominica | - | - | 100 | | - | - | 100.0 | 60.0 |
| Dominican Republic (the) | - | - | - | - | | - | - | - |
| Ecuador | - | - | - | 43 | - | - | 1.3 | 18.0 |
| Egypt | 52 | - | 81 | 82 | 43.6 | 0.5 | 10.2 | 15.2 |
| El Salvador | - 89 | - 89 | - 77 | - 82 | - 70.0 | 65.3 | 45.2 68.9 | 49.4 84.5 |
| Equatorial Guinea | 69 | o _a | | | | | | |
| Entrea | • | | - | 83 | | - | 3.0 | 6.0 |
| Estonia Ethiopia | 74 | 61 | - 73 | 72 | 14.7 | 20.7 | 24.3 | 28.0 |
| | | | | | | | | |
| Fiji Finland | 90 | 86 | - | 87 - | 21.7 | 21.7 | 20.4 | 22.6 |
| 1 TORRESTON | | | | | | | | |

| | | Treatmen | nt success | | | DOTS d | etection | |
|--|----------|----------|------------|----------|---------------|---------------|--------------|---------------|
| | 1995 | 1996 | 1997 | 1998 | 1995 | 1996 | 1997 | 1998 |
| French Polynesia | - | 67 | 95 | 100 | | 41.6 | 45.6 | 37.0 |
| Gabon Gambia (the) | - 74 | 76 | 80 | | 75.0 | - 69.7 | - 75.1 | - |
| Georgia | - | 58 | | 65 | 13.4 | 29.3 | | 33.7 |
| Germany Ghana | - | - 54 | - 51 | - 48 | - 16.7 | - 14.9 | - 33.5 | 33.7 |
| | | 54 | 51 | 40 | 10.7 | 14.9 | 33.5 | 33.1 |
| Greece Grenada | - | - | - | | - | - | - | - |
| Guam | • | • | - | - | | • | - | - |
| Guatemala Guinea | 62 78 | 61 78 | 81 75 | 73 74 | 41.0 40.8 | 55.5 50.2 | 52.0 51.9 | 51.3 58.5 |
| Guinea-Bissau | - | - | - | - | 40.6 | - | - | - |
| Guyana | - | | | - | - | | | - |
| Haiti Honduras | - | - | - | 73 - | | | 1.7 | 12.2 2.1 |
| Hungary | | | | | | _ | _ | _ |
| Iceland | - | - | - | - | - | - | - | - |
| India | 83 | 79 | 79 | 82 | 0.3 | 8.0 | 1.0 | 1.5 |
| Indonesia Iran (Islamic Republic of) | 94 | 91 | 81 87 | 54 84 | 1.4 27.8 | 4.6 | 7.4 6.9 | 12.2 18.5 |
| Iraq | • | - | - | - | - | - | - | 1.9 |
| Ireland | - | - | - | - | | - | - | - |
| Israel Italy | - | 80 | 82 | - 69 | - | 14.5 | 99.5 8.6 | 104,2 12.7 |
| Jamaica | | 67 | 72 | 79 | | 86.2 | 80.7 | 89.9 |
| Jamaica Japan | - | - | - | - | | - | - | - |
| Jordan | 90 | - | - | - | 71.4 | - | - | 37.9 |
| Kazakhstan | - | - | - | - | - | - | | 4.0 |
| Kenya Kiribati | 73 - | 75 - | 77 - | 65 | 42.1 | 50.1 | 55.0 34.4 | 68.1 152.4 |
| Kuwait | | _ | | | | | | - |
| Kyrgyzstan | | - | 88 | 76 | - | 2.9 | 4.1 | 41.4 |
| Lao People's Democratic Republic (the) | - | 70 | 55 | 62 | • | 23.5 | 31.7 | 37.4 |
| Latvia Lebanon | - 89 | 61 | 64 | 65 | 55.6 | 61.9 | 69.1 | 74.0 |
| Lesotho | 56 | 47 | 71 | - | 38.8 | 49.7 | 65.0 | - |
| Liberia | | 79 | - | 75 | - | 30.0 | - | 43.8 |
| Libyan Arab Jamahiriya (the) Lithuania | - | - | - | | | | | |
| Luxembourg | _ | _ | | | | | _ | |
| Madagascar | 51 | 55 | - | 64 | 46.8 | 60.0 | - | 64.3 |
| Malawi | 22 | 71 | 68 | 71 | 43.3 | 45.3 | 50.0 | 56.8 |
| Malaysia Maldives | 95 | 69 97 | 93 | - 95 | 66.2 117.5 | 70.5 106.0 | 90.4 | - 82.2 |
| Mali | 68 | 59 | 65 | 62 | 13.3 | 15.0 | 16.6 | 16.2 |
| Malta | | 100 | 100 | 100 | | 38.5 | 23.1 | 46.2 |
| Marshall Islands (the) | - | - | • | - | - | - | - | 46.2 |
| Mauritania | | • | • | • | | | - | |
| Mauritius Mexico | 96 | | 75 | - 70 | 40.2 | - | 15.3 | 32.2 33.4 |
| Micronesia (Federated States of) | 64 | 80 | - | - | 14.3 | 20.0 | - | • |
| Monaco | • | - | | • | | - | - | - |
| Mongolia Montserrat | 59 - | 78 | 78 | 86 | 7.3 | 30.3 | 29.7 | 50.3 |
| Morocco | 86 | 90 | 88 | 83 | 97.7 | 96.6 | 93.9 | 87.6 |
| Mozambique | 67 | 39 | 54 | 67 | 57.4 | 55.2 | 57.1 | 60.8 |
| Myanmar | • | 66 | 79 | 82 | - | 24.9 | 25.1 | 27.7 |
| Namibia Nauru | | - | 54 | 58 | 20.3 | 79.9 | 74.0 | 94.4 |
| Nepal | | - | 85 | 87 | - | 5.4 | 10.7 | 15.6 |
| Netherlands (the) | 81 | 72 | 81 | 80 | 83.6 | 51.7 | 44.8 | 36.3 |
| Netherlands Antilles New Caledonia | - 62 | - 75 | | - | - 36.1 | - 35.6 | - | |
| | - | - | | - | - | 33.0 | | |
| New Zealand Nicaragua | 81 | 80 | 79 | 81 | 89.1 | 95.2 | 90.0 | 86.4 |
| Niger (the) | • | • | 57 | 66 | - | - | 21.0 | 17.6 |
| Nigeria | 65 | 49 | 32 | 73 | 9.1 | 14.7 | 10.2 | 11.7 |
| Niue Northern Mariana Islands (Commonwealth of) | | | - | - | - | | | - |
| Norway | - | 77 | 80 | 44 | _ | 92.8 | 90.1 | 43.8 |
| Oman | - | 84 | 87 | 91 | - | 78.3 | 83.3 | 73.2 |
| | | | | | | | | |

| | | Treatmen | t success | | | DOTS d | etection | |
|--|-----------|----------|-----------|----------|--------------|--------------|--------------|--------------|
| | 1995 | 1996 | 1997 | 1998 | 1995 | 1996 | 1997 | 1998 |
| Pakistan | 74 | 70 | • | 67 | 1.0 | 1.6 | - | 3.4 |
| Palau | 64 | 67 | 75 | - | 150.0 | 66.7 | 116.7 | |
| Panama Papua New Guinea | - | 60 | - | 51 93 | - | 4.2 | 1.0 | 12.5 8.1 |
| Paraguay | 46 | 51 | _ | - | 14.2 | 55.4 | _ | - |
| Peru | 81 | 83 | 89 | 90 | 114.9 | 94.3 | 95.0 | 94.1 |
| Philippines (the) | 80 | - | 82 | 83 | 0.4 | 0.5 | 3.2 | 10.2 |
| Poland | - | - | - | - | | | - | 1.7 |
| Portugal Puerto Rico | 48 | 69 65 | 74 68 | 78 68 | 83.1 | 79.8 71.4 | 67.1 81.3 | 83.0 67.3 |
| Qatar | 83 | 81 | 72 | 79 | 101.7 | 72.9 | 65.0 | 111.5 |
| Republic of Korea (the) | 71 | 76 | 71 | 82 | 33.7 | 64.8 | 56.0 | 57.8 |
| Republic of Moldova (the) | - | - | - | - | - | - | - | - |
| Romania | - | - | | 72 | - | - | - | 88.6 |
| Russian Federation (the) Rwanda | | 65 - | 62 61 | 67 68 | 33.3 | 0.4 35.4 | 0.9 45.0 | 1.0 63.7 |
| Saint Kitts and Nevis | _ | _ | _ | | | | | 150.0 |
| Saint Lucia | - | - | - | 67 | - | - | 91.7 | 98.4 |
| Saint Vincent and the Grenadines | - | - | - | 86 | • | - | - | 18.6 |
| Samoa | 50 | 80 | 100 | - | 22.7 | 15.2 | 20.9 | - |
| San Marino Sao Tome and Principe | | | | 100 | • | | - | - |
| Saudi Arabia | - | - | | - | | | | |
| Senegal | 35 | 39 | 41 | 52 | 66.4 | 70.9 | 62.0 | 61.7 |
| Seychelles | - | 89 | 100 | 100 | - | 75.0 | 91.7 | 82.0 |
| Sierra Leone | 75 | 69 | 74 | 79 | 25.0 | 37.5 | 37.4 | 35.7 |
| Singapore Slovakia | 88 96 | 86 64 | 73 | - 67 | 63.0 94.7 | 28.3 91.2 | 33.9 | 36.3 |
| Slovenia | | 90 | 87 | 82 | | 85.3 | 60.2 | 60.6 |
| Solomon Islands | | 65 | 73 | 92 | - | 57.7 | 70.2 | 84.3 |
| Somalia | - | 86 | 84 | 90 | - | 14.0 | 18.0 | 17.4 |
| South Africa | - | - | 69 | 73 | • | - | 6.0 | 23.3 |
| Spain Sri Lanka | - 77 | - 79 | 80 | - 76 | 62.5 | 60.1 | 70.5 | 74.7 |
| St. Helena | | - | | _ | | _ | _ | _ |
| Sudan (the) | - | - | - | 70 | - | 2.1 | 1.4 | 30.5 |
| Suriname | - | - | - | • | - | - | 17.0 | - |
| Swaziland | - | - | - | • | • | - | - | - |
| Sweden Switzerland | - | - | - | | - | - | - | - |
| Syrian Arab Republic (the) | | | 92 | 88 | | | 5.5 | 13.0 |
| Tajikistan | - | - | - | - | | - | - | - |
| Thailand | - | - | 78 | 62 | - | 0.3 | 5.1 | 21.3 |
| The former Yugoslav Republic of Macedonia | - | - | - | - | - | - | - | - |
| Togo Tokelau | 45 | 60 | 65 | 64 | 14.9 | 15.0 | - | 14.5 |
| Tonga | 89 | 75 | 82 | 75 | 23.1 | 41.0 | 30.8 | 41.0 |
| Trinidad and Tobago | - | - | | - | - | - | - | - |
| Tunisia | - | - | - | - | - | - | - | - |
| Turkey | - | - | - | - | | - | - | - |
| Turkmenistan Turks and Caicos Islands | | - | - | - | | - | | - |
| Tuvalu | | | | _ | | _ | _ | |
| Uganda | | | 33 | 40 | - | - | 65.0 | 66.7 |
| Ukraine | - | - | - | - | • | - | - | |
| United Arab Emirates (the) | - | - | - | - | • | - | - | |
| United Kingdom of Great Britain and Northern Ireland (the) United Republic of Tanzania (the) | - 80 | - 73 | - 76 | - 77 | 52.3 | - 54.9 | 55.0 | 58.0 |
| United States of America (the) | - | 72 | 71 | 72 | 52.0 | 93.4 | 86.1 | 82.3 |
| United States of America (the) United States Virgin Islands | - | 72 50 | - | - | | 100.0 | 86.1 | 82.3 |
| Uruguay | 83 | 68 | 80 | 77 | 79.5 | 96.6 | 95.3 | 83.7 |
| Uzbekistan | | | • | • | - | - | - | 0.5 |
| Vanuatu Venezuela | 100 68 | 74 | 80 | - 72 | 44.8 73.9 | - 75.6 | 75.0 | - 78.4 |
| | | | | | 29.9 | 59.0 | 76.9 | 80.4 |
| Viet Nam Wallis and Futuna Islands | 91 | 91 | 90 | 85 - | 29.9 | 59,0 | | - |
| West Bank and Gaza | - | - | - | - | - | - | - | - |
| Yemen | - | - | 76 | 81 | - | 8.7 | 30.0 | 35.6 |
| Yugoslavia Zambia | | | | | - | - | - | - |
| | - | | | - | - | - | - | |
| Zimbabwe | • | - | - | - | - | - | - | 59.1 |

ANNEX 7

Global Profile (updated)

This **Global Profile** is an updated version of the **1998 Global Profile** published in *Global TB Control WHO Report 1999*.

The most recent case notifications and treatment outcomes data on TB are in Annex 2.

Global Profile

Case Finding (1997)

| | | Population Cove | red | | N | lotified Cases | | | Estimated cases | Case detection | New ss+ / all |
|--------|-----------|-----------------|-------|-----------|-----------|----------------|-----------|------|-----------------|----------------|---------------|
| | | | | , | All types | | New ss | + | New ss+ | | pulm. cases |
| | | No. | % | No. | Rate | % | No. | Rate | No. | % | % |
| | | а | b | С | d | е | f | g | h | f/h | I . |
| AFR | DOTS | 337 858 944 | 57.5 | 394 260 | 116.7 | 70.0 | 197 519 | 58.5 | | | 64.2 |
| | non-DOTS | 219 806 433 | 37.4 | 168 714 | 76.8 | 30.0 | 77 869 | 35.4 | | | 53.0 |
| | no report | 29 585 195 | 5.0 | | | | | | | | |
| | Total | 587 250 572 | 100.0 | 562 974 | 101.0 | 100.0 | 275 388 | 49.4 | 660 946 | 41.7 | |
| AMR | DOTS | 396 899 958 | 49.8 | 93 144 | 23.5 | 37.2 | 55 090 | 13.9 | | | 75.2 |
| | non-DOTS | 368 927 794 | 46.3 | 157 313 | 42.6 | 62.8 | 86 458 | 23.4 | | | 66.1 |
| | no report | 31 046 199 | 3.9 | | | | | | | | |
| | Total | 796 873 951 | 100.0 | 250 457 | 32.7 | 100.0 | 141 548 | 18.5 | 182 466 | 77.6 | |
| EMR | DOTS | 81 265 167 | 17.5 | 49 556 | 61.0 | 39.1 | 25 269 | 31.1 | | | 78.7 |
| | non-DOTS | 220 150 661 | 47.5 | 77 093 | 35.0 | 60.9 | 27 811 | 12.6 | | | 49.1 |
| | no report | 161 770 431 | 34.9 | | | | | | | | |
| | Total | 463 186 259 | 100.0 | 126 649 | 42.0 | 100.0 | 53 080 | 17.6 | 274 798 | 19.3 | |
| EUR | DOTS | 75 778 132 | 8.7 | 16 892 | 22.3 | 4.7 | 5 284 | 7.0 | | | 42.6 |
| | non-DOTS | 792 525 337 | 91.3 | 340 688 | 43.0 | 95.3 | 108 303 | 13.7 | | | 38.8 |
| | no report | 32 000 | 0.0 | | | | | | | | |
| | Total | 868 335 469 | 100.0 | 357 580 | 41.2 | 100.0 | 113 587 | 13.1 | 196 827 | 57.7 | |
| SEAR | DOTS | 229 830 329 | 15.7 | 112 480 | 48.9 | 8.6 | 70 145 | 30.5 | | | 69.8 |
| | non-DOTS | 1 231 844 797 | 84.3 | 1 199 611 | 97.4 | 91.4 | 298 079 | 24.2 | | | 26.5 |
| | no report | 0 | 0.0 | | | | | | | | |
| | Total | 1 461 675 126 | 100.0 | 1 312 091 | 89.8 | 100.0 | 368 224 | 25.2 | 1 320 555 | 27.9 | |
| WPR | DOTS | 942 439 557 | 57.4 | 386 281 | 41.0 | 46.3 | 226 316 | 24.0 | | | 63.8 |
| | non-DOTS | 700 274 797 | 42.6 | 448 691 | 64.1 | 53.7 | 149 548 | 21.4 | | | 36.7 |
| | no report | 442 094 | 0.0 | | | | | | | | |
| | Total | 1 643 156 448 | 100.0 | 834 972 | 50.8 | 100.0 | 375 864 | 22.9 | 880 956 | 42.7 | |
| | | 1 | | | 1 | I Company | | | | В | |
| GLOBAL | | 2 064 072 088 | 35.5 | | | 30.6 | 579 623 | 28.1 | 4 | | 65.8 |
| | non-DOTS | 3 533 529 818 | 60.7 | 2 392 110 | 67.7 | 69.1 | 748 068 | 21.2 | | | 34.8 |
| | no report | 222 875 919 | 3.8 | | | | | | | | |
| | Total | 5 820 477 825 | 100.0 | 3 444 723 | 61.5 | 99.6 | 1 327 691 | 23.7 | 3 516 548 | 37.8 | |

This is not the most recent Global Profile (see pages 60-62).

Treatment Outcomes (1996)

| | | | | | New s | s+ cas | es | | | | | | Re | treatm | ent ca | ises | | | |
|--------|----------|------------|----------------|--------------|--------------|-------------|---------------|-------------|---------------|---------------------------|------------|----------------|--------------|--------------|-------------|---------------|-------------|---------------|---------------------------|
| | | Registered | % not eval. | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treatm. success (%) | Registered | % not eval. | Cured (%) | Comp. (%) | Def. (%) | Failed (%) | Dead (%) | Trans. (%) | Treatm. success (%) |
| | | j | k | 1 | m | n | 0 | р | q | r | s | t | и | v | W | X | У | Z | aa |
| AFR | DOTS | 169 459 | 21.7 | 46.5 | 9.9 | 9.7 | 1.2 | 6.0 | 5.1 | 56.4 | 15 796 | 17.8 | 45.5 | 10.9 | 9,9 | 2.7 | 8.4 | 4.8 | 56.4 |
| | non-DOTS | 64 412 | 9.5 | 42.8 | 12.5 | 13.4 | 2.3 | 5.7 | 13.8 | 55.4 | | | | | | | | | |
| AMR | DOTS | 49 859 | 5.1 | 76.9 | 4.5 | 5.5 | 0.9 | 4.4 | 2.6 | 81.5 | 5 266 | 6.0 | 69.0 | 5.1 | 9.7 | 3.2 | 5.1 | 1.9 | 74.0 |
| | non-DOTS | 84 129 | 56.2 | 23.9 | 8.5 | 5.5 | 0.7 | 2.7 | 2.6 | 32.4 | | | | | | | | | |
| EMR | DOTS | 19 571 | 1.0 | 75.5 | 10.2 | 7.7 | 1.5 | 2.8 | 1.4 | 85.7 | 2 502 | 2.5 | 63.0 | 8.8 | 12.3 | 4.0 | 4.6 | 4.8 | 71.8 |
| | non-DOTS | 32 080 | 27.0 | 42.2 | 12.1 | 10.7 | 3.2 | | | 54.3 | | | | | | | | | |
| EUR | DOTS | 5 857 | 12.5 | 54.2 | 17.3 | 5.3 | 3.7 | 5.2 | 1.8 | 71.5 | 512 | 7.8 | 48.2 | 19.5 | 7.2 | 6.3 | 8.0 | 2.9 | 67.8 |
| | non-DOTS | 88 093 | 6.4 | 54.9 | 2.1 | 9.8 | 11.7 | 11.3 | 3.8 | 57.0 | | | | | | | | | |
| SEAR | DOTS | 50 952 | 6.5 | 70.2 | 7.1 | 8.4 | 1.8 | 3.7 | 2.4 | 77.3 | 5 269 | 6.2 | 64.2 | 4.0 | 10.5 | 5.3 | 5.4 | 4.5 | 68.2 |
| | non-DOTS | 309 284 | 74.9 | | 19.7 | 1.4 | 0.3 | | 0.3 | 22.9 | | | | | | | | | |
| WPR | DOTS | 190 500 | 1.2 | 88.2 | 4.9 | 1.4 | 1.2 | 1.7 | 1.3 | 93.1 | 58 310 | 1.0 | 89.8 | 2.3 | 1.5 | 2.3 | 2.2 | 1.0 | 92.1 |
| | non-DOTS | 181 042 | 41.7 | 4.6 | | 3.1 | 1.9 | | 1.5 | 50.6 | | | | | | | | | |
| | | | | | | | | | | | | | | • | | | | | |
| GLOBAL | DOTS | 486 198 | 9.5 | | | 5.7 | | | | 76.9 | 87 655 | 5 | 78.0 | 4.4 | 4.4 | 2.7 | 3.8 | 2.1 | 82.4 |
| | non-DOTS | 759 040 | 49.4 | 16.9 | 21.7 | 4.7 | 2.4 | 2.4 | 2.6 | 38.6 | | | | | | | | | |

This is not the most recent Global Profile (see pages 60-62).

Global Profile - cont'd.

WHO TB Control Categories (1997)

| Regions | No. of countries | No. of | No. o | of co | untri | es in | cate | gory | Prop | ortion of | f populat | ion in ca | tegory (| %) |
|---------|------------------|-----------|-------|-------|-------|-------|------|------|------|-----------|-----------|-----------|----------|-----|
| | | countries | 0 | 1 | 2 | 3 | 4 | 5 | 0 | 1 | 2 | 3 | 4 | 5 |
| AFR | 47 | 38 | 9 | 6 | | 14 | 18 | | 5.0 | 6.6 | | 58.1 | 30.3 | |
| AMR | 44 | 35 | 9 | 12 | 2 | 2 | 17 | 2 | 3.9 | 29.1 | 12.8 | 6.0 | 48.2 | |
| EMR | 23 | 18 | 5 | 6 | 1 | 6 | 4 | 1 | 34.9 | 11.3 | 6.0 | 41.1 | 6.6 | 0.2 |
| EUR | 51 | 51 | | 32 | 2 | 3 | 11 | 3 | | 67.0 | 17.5 | 7.9 | 6.5 | 1.1 |
| SEAR | 10 | 10 | | 1 | 2 | 4 | 3 | | | 1.6 | 70.2 | 26.8 | 1.4 | |
| WPR | 36 | 30 | 6 | 10 | 1 | 7 | 10 | 2 | | 9.6 | 0.3 | 81.2 | 7.6 | 1.3 |
| GLOBAL | 211 | 182 | 29 | 67 | 8 | 36 | 63 | 8 | 3.8 | 18.7 | 22.6 | 40.8 | 13.6 | 0.6 |

This is not the most recent Global Profile (see pages 60-62).